

Monthly Performance Report

June 2017

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788



**P.O. Box 1600
Richland, Washington 99352**

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APPROVED

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Release Approval

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L. Ty Blackford
President and Chief
Executive Officer

Monthly Performance Report

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June 2017
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EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company (CHPRC) advanced cleanup throughout the Hanford Site during the month of June. Major accomplishments included:

- **Plutonium Finishing Plant (PFP) Closure Project:** The project shut down exhaust ventilation fans and disconnected power to the fan house (291-Z) in advance of beginning demolition of that facility, which is scheduled to begin June 30, 2017. Workers began removing gallery gloveboxes from the exterior walls of the Plutonium Reclamation Facility (PRF). The project safely responded to a continuous air monitor alarm on Thursday, June 8, 2017.
- **Soil and Groundwater Remediation Project (S&GRP):** S&GRP treated more than 1.5 billion gallons of contaminated groundwater ahead of schedule and is past the halfway mark toward its 2.2 billion gallon goal.
- **Waste and Fuels Management Project (W&FMP):** Formal design review of the Management of Cesium and Strontium Capsule Project (W-135) conceptual design report began on June 20, 2017, and the project review board review of the W-135 critical decision (CD-1) submittal package began June 21, 2017. Project team members visited the West Valley Site's high-level waste relocation project to review lessons learned and review equipment for potential transportation and use at Hanford's capsule relocation effort.
- **K Basins Operations and Remediation Project:** K Basin Acceptance Testing (KPAT) team is about 12 percent complete. Workers completed a difficult underwater repair of a sludge transfer pump in the K Basin, helping save cost and avoid negative schedule impacts. EPA approved Remaining Sites Verification Package for closure of waste sites 100-K-101, 25, 27, 35, 79:3, 79:4, 120-KE-1, 2, 3, 4, 5, 6 in the 183.1 KE Head House excavation site. Started backfilling excavation site.
- **618-10 Burial Ground Waste Site:** Crews completed excavation approximately 67 feet down to groundwater at the 316-4 Waste Site. This effort included removing more than 300,000 tons of soil. Upon receipt of backfill concurrence from RL/EPA, backfill at the 316-4 Waste Site commenced on June 19, 2017, and is anticipated to complete in November 2017.
- **324 Building Remediation Project:** The project issued a request for proposal for firms interested in bidding on performing building modifications, such as interference removal, cell sealing, core drilling, and structural modifications to support soil removal. Crews began removing soft waste from the 324 Building airlock. Power was connected at the mock-up structure, and a contract was awarded for mock-up modifications to support soil removal equipment installations.
- **PUREX Tunnels:** Structural analysis of Tunnel 2, completed as part of the Washington State Department of Ecology's administrative order related to the partial collapse of Tunnel 1, showed several aspects of Tunnel 2 exceeding today's allowable Design-to-Capacity Ratios. CHPRC leadership briefed RL on the results of the structural analysis on June 29, 2017, and by August 1, 2017, will develop corrective actions to ensure continued safe storage of waste in Tunnel 2. Site preparations are starting and work planning is underway related to the effort to insert engineered grout into Tunnel 1.

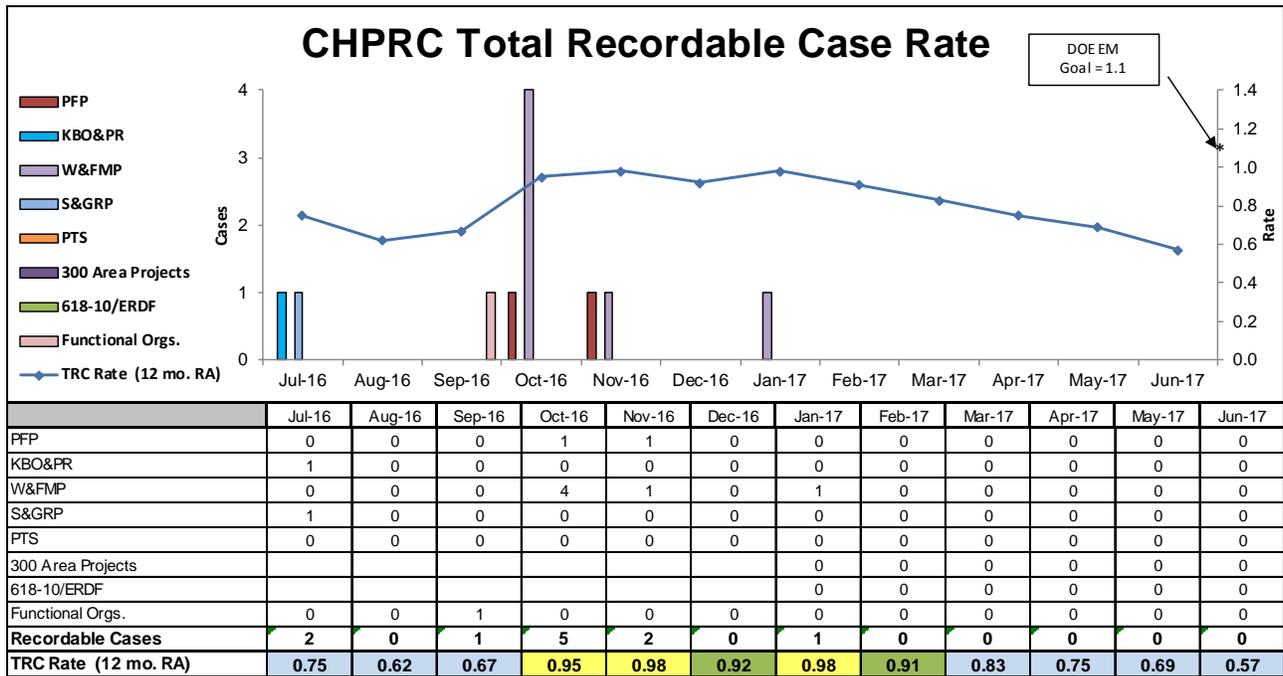


Excavation at the 618-10 Burial Ground.

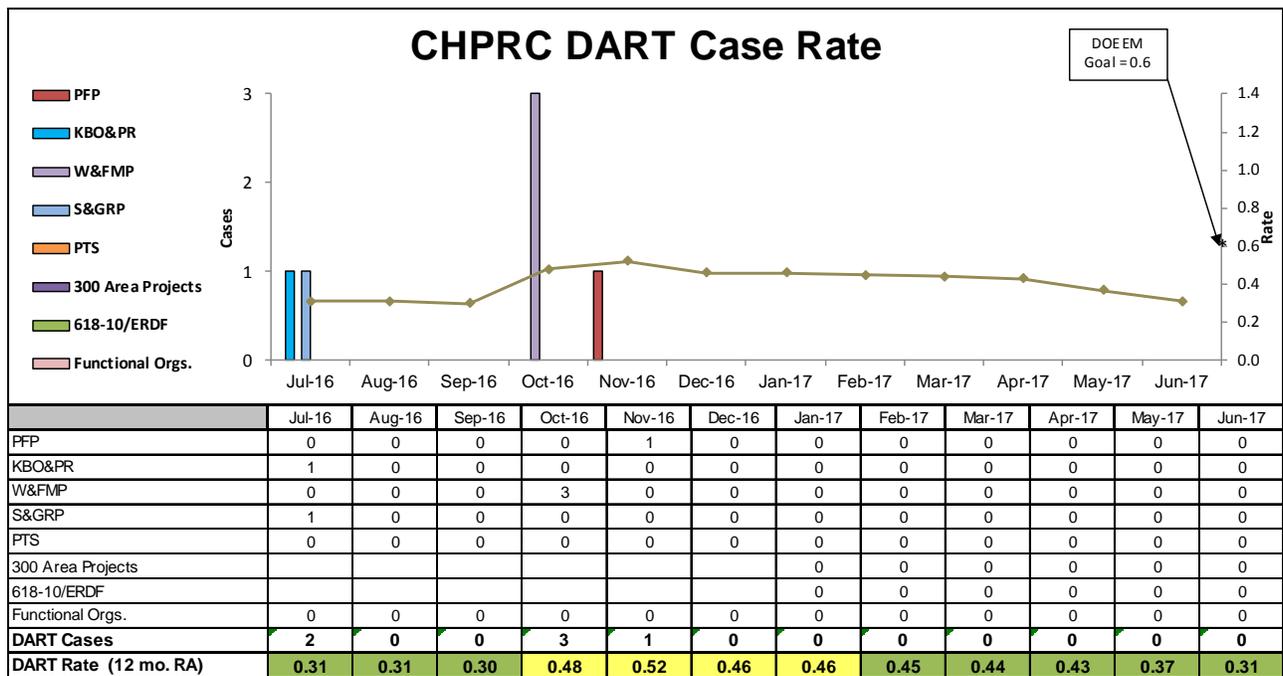
- The President's Zero Accident Council (PZAC) meeting for June was hosted by the Soil & Groundwater Remediation Project. The three main ideas were:
 - o Top unintentional injuries.
 - o Skin cancer.
 - o Boating/water safety.
- Five "Thinking Target Zero" (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
 - o Summertime personal protective equipment (PPE).
 - o Ultraviolet (UV) Rays – Summer Safety.
 - o Heat Stress + Hydration.
 - o Environmental Management System (EMS) ISO 14001 Audit.
 - o Driving Safety – Seatbelt Use.
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Four Lessons Learned:
 - Sharing Past Summer Vehicle Lessons Learned and Best Practice - Aerosol propellant container burst due to increased temperatures in a privately owned vehicle.
 - Mine Safety and Health Administration – Miner falls from ladder and impaled by pry bar.
 - Best Practice at CHPRC - Planning for upset conditions prepared a team to rescue workers from aerial lift.
 - Fieldwork presents walking work surface challenges.
 - o Weekly ethics moments.
 - o Vehicle incidents.
 - o Conduct of work focus topic.
 - o June is National Safety Month.
 - o Summer adverse weather.
 - o Eye safety reminder.
 - o Mailing official use only (OUO) information.
 - o Procedure revision notice.
 - o Rattlesnake safety reminder.
 - o Footwear Q&A.
 - o Driving Safety Campaign
 - o Driving Safety – Seatbelt Campaign.
 - o Driving Safety – Tell your story.

TARGET ZERO PERFORMANCE

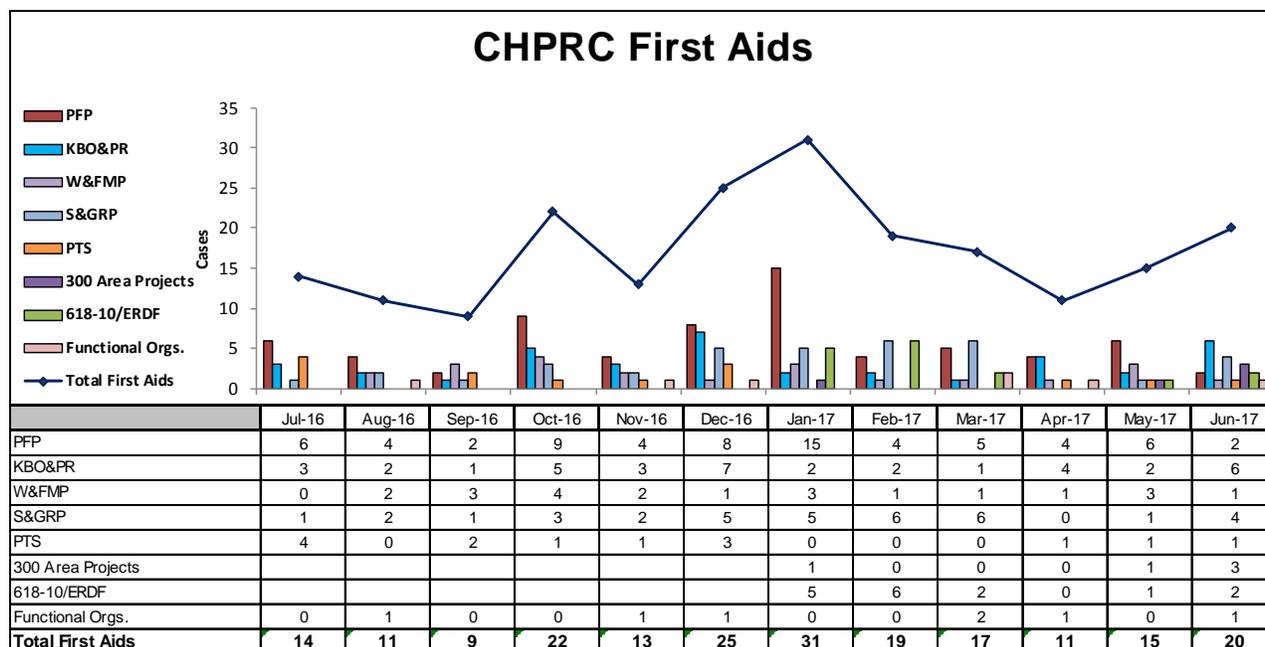
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.57 is based on a total of 11 Recordable injuries. There were no Recordable cases for June.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.31 is based upon a total of six Days Away cases. There were no DART cases in June.



First Aid Case Summary: CHPRC reported 20 First Aid cases in June. The contributors were nine sprains/strains/pains, four abrasions/bruises/contusions, three miscellaneous (burns, rashes, repetitive motion, etc.), two insect bites, one cut/laceration/puncture and one undescribed/precautionary injury.

KEY ACCOMPLISHMENTS

Projects

- Refer to Sections A through G, as well as Appendix C of this report for project specific accomplishments.

Project Services and Support (PTS)

- Refer to the Appendix B section of this report for specific overhead support and Sections A through G, as well as Appendix C of this report for specific project support.

MAJOR ISSUES

Issue:

Unusually severe weather has caused negative schedule impacts to programmatic and performance measure due dates and increased costs.

Corrective Action:

- Evaluate potential workarounds to mitigate impacts.
- Submit notice to DOE Richland Operations Office (RL) for excusable delays related to unusually severe weather conditions.
- Assess current and future impacts of these disruptions to schedule and cost, and submit Request for Equitable Adjustment (REA) to RL.

Status:

- Submitted general notice to RL on January 24, 2017, (CHPRC-1700206 – Request for Excusable Delay Due to Unusually Severe Weather).

- Submitted Performance Measure (PM) specific request for Excusable Delay for *Weather Delay Impacts to PM-30-4-17, Complete Well Drilling of Six Wells by March 31, 2017*, on March 30, 2017. CHPRC requested the due date be adjusted by 15 working days (4x10 schedule), from March 31, 2017, to April 26, 2017. Additionally, CHPRC requested a PRC cost adjustment of \$124,800 to cover the additional subcontract cost caused by the excusable delay.
- Submitted PM specific request for weather impacts to PM-40-2-17, Complete REDOX ROOF, DUE July 31, 2017, and requesting 11 working days relief to the due date.
- Efforts to quantify the combined schedule and cost impacts to the PFP Closure Project from a false criticality alarm in June 2016 and associated decontamination efforts, unusually inclement winter weather in December 2016 through February 2017, and the abatement of the unforeseen discovery of additional asbestos containing materials are continuing.

Issue:

Significant Contract Change Management is ongoing and must be resolved to retain Plateau Remediation Contract (PRC) alignment for fiscal year (FY) 2017/FY2018.

- During June, RL unilaterally definitized two Change Proposals (CPs) (CP 040 309 1623, *Data Quality Objectives for Assessing the Structural Integrity for the PUREX Tunnels 1 and 2*, and CP 030 312-1627, *Bio-Mobilization and Bio-Intrusion Evaluation Sampling and Analysis Plan*) and one Request For Equitable Adjustment (REA) (CP 013 1591, *SWOC Permit Modification Request*). RL's unilateral determinations excluded the majority of projected labor costs for conducting mutually agreed increased scope to the PRC and in addition, excluded CHPRC regular labor from fee-bearing costs. Pursuant to PRC Section I, Clause I.102, Federal Acquisition Regulation 52.243-2, "Changes – Cost Reimbursement," CHPRC formally notified RL on July 3, 2017, that it reserves its right to future equitable adjustments for these changes.
- As of June month end, there was a backlog of 39 undefinitized CPs and responses to Requests for Proposals (RFPs) – totaling approximately \$298 million in net value (RCCC scope, WA-1 Characterization, and other Change Orders valued at approximately \$346 million offset by Management of Cesium and Strontium Capsules Capital Asset (MCSC) Project and NDA of Repackaged Remote Handled/Large Box Suspect TRU Waste deduct proposals valued at about \$48 million for work to be completed outside CHPRC period of performance).

Corrective Action:

- Work with RL to reach agreement on PRC FY2017/FY2018 alignment and support RL evaluation and determination of the disposition of undefinitized CHPRC CPs/REAs.

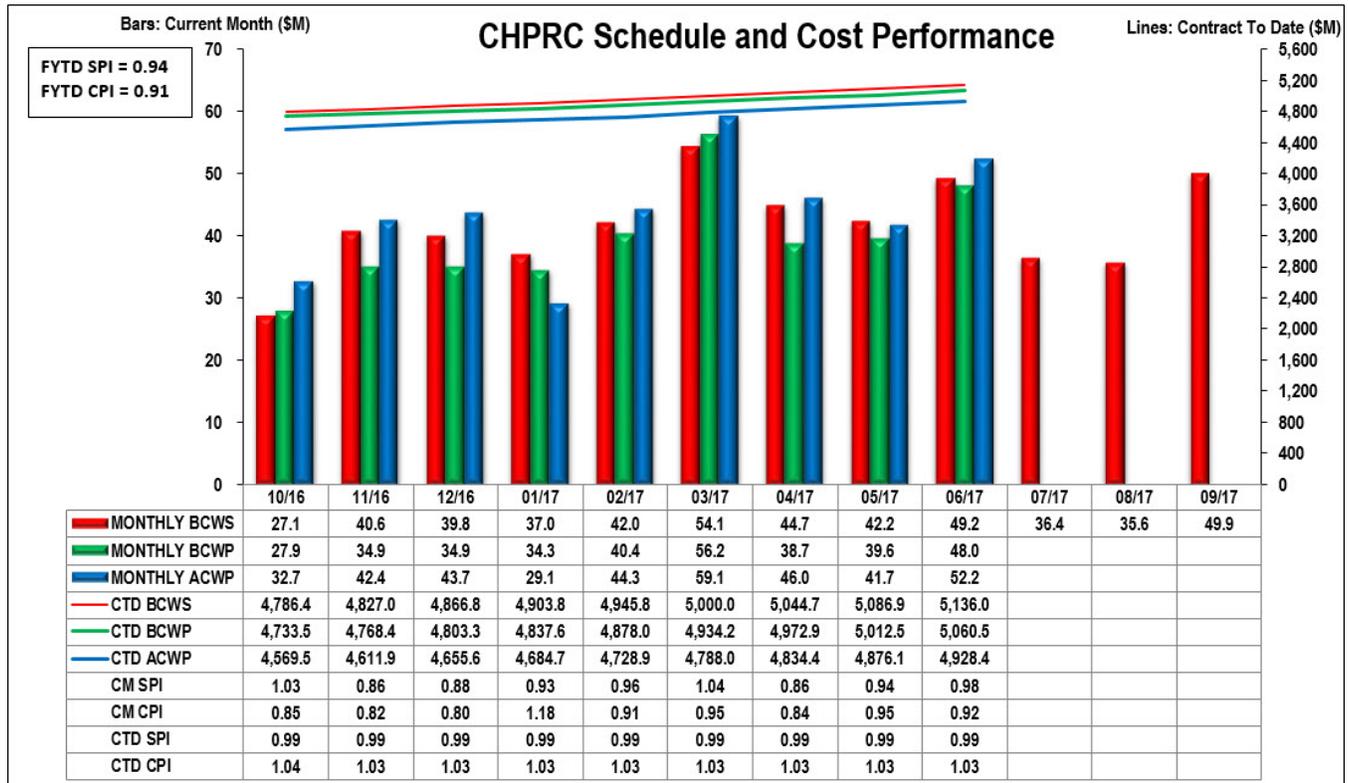
Status:

- CHPRC continues to discuss proposed alignment strategy with RL.
- Two Truthful Cost or Pricing Data (TCoPD) updates were submitted to RL (CP 041 305 1616 - *300-296 Waste Site Design Change, Initiate Procurements, Testing, and Removal of Debris*, and CP 040 311 1625 - *Emergency Response for Facility/Waste Site Environment, Safety, Health & Quality or Remediation*,) were submitted in June. CHPRC continues to respond to RL Requests for Information and TCoPD submittal requests in a timely manner to provide RL with current information to enable them to negotiate and definitize open changes.

Projects

- Refer to Sections A through G, as well as Appendix C of this report for the project specific major issues.

EARNED VALUE MANAGEMENT



	\$M					\$M					\$M			
	Current Period					Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost		Variance	Budgeted Cost		Actual Cost		Variance	BAC		EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance	
RL-0011 - Nuclear Materials Stab & Disp PFP	0.0	2.7	11.0	2.7	(8.3)	980.1	941.9	1035.9	(38.2)	(94.0)	980.5	1,074.7	(94.2)	
RL-0012 - SNF Stabilization & Disposition	7.2	5.9	3.8	(1.3)	2.1	681.3	680.3	647.9	(1.0)	32.4	741.0	708.6	32.4	
RL-0013 - Solid Waste Stab & Disposition	8.2	10.2	10.6	2.1	(0.4)	1164.7	1164.9	1090.3	0.2	74.5	1,346.1	1,273.5	72.6	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	16.8	12.6	13.1	(4.2)	(0.4)	1395.8	1360.7	1326.1	(35.0)	34.6	1,562.6	1,519.5	43.1	
RL-0040 - Nuc Fac D&D - Remainder	4.0	4.0	4.0	0.0	0.0	444.5	439.1	410.1	(5.4)	29.1	485.9	463.7	22.2	
RL-0041 - Nuc Fac D&D - RC Closure Project	12.7	12.3	9.5	(0.5)	2.8	445.9	449.9	398.5	4.0	51.4	569.2	506.6	62.6	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.3	(0.0)	(0.1)	23.7	23.7	19.6	(0.1)	4.1	26.5	24.0	2.5	
Total	49.2	48.0	52.2	(1.2)	(4.2)	5,136.0	5,060.5	4,928.4	(75.6)	132.1	5,711.7	5,570.6	141.1	

(Values are rounded to the nearest \$0.1M)

(Values do not have UB breakout)

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

Performance Summary

CHPRC continues to track completion of the contract scope within budget and is currently projecting a Variance at Completion of \$141.1 million, with \$67.3 million of Management Reserve (MR), for a total positive variance of \$208.4 million. For June, the project was 2.4 percent behind schedule and 8.9 percent over planned cost. Contract to Date (CTD), the project was 1.5 percent behind schedule and 2.6 percent under planned cost.

The current month schedule variance is within reporting thresholds.

The current month negative cost variance is primarily due to PBS RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without Budgeted cost of work scheduled (BCWS), to support the remaining D&D work scope until the facility becomes ready for demolition. In addition, asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of approximately an additional 10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition-ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities. Unplanned shipments of drums to Perma-Fix Northwest, Inc. also contributed to the unfavorable variance. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab-on-grade milestone is met.

The current month negative cost variance is partially offset by PBS RL-0041 project management and support accounts for 618-10 Burial Ground experienced significant underruns due to efficient use of resource sharing across the complex and reduced material usage.

Also offsetting the negative cost variance is PBS RL-0012 realizing earned value on level of effort accounts for work scope completed ahead of schedule. This scope included in-basin equipment installation and Annex equipment installation activities. In addition, a review of fabrication contractor's accrual information showed information provided by the contractor was not consistent with progress on the firm, fixed-priced contract. This information resulted in a downward adjustment to the accrued costs to date.

FUNDING ANALYSIS

FY2017 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2017		Variance
		Projected Funding	Spending Forecast	
Estimate at Complete				
RL-0011	Nuclear Materials Stabilization and Disposition	134.5	129.8	4.7
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	32.4	30.3	2.0
RL-0012	15-D-401 Sludge Retrieval Project	65.0	43.5	21.5
RL-0013	Waste and Fuels Management Project	112.1	94.3	17.8
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.6	112.3	14.2
RL-0040	Nuclear Facility D&D, Remainder of Hanford	38.9	29.4	9.4
RL-0041	Nuclear Facility D&D, River Corridor	146.3	117.9	28.4
RL-0042	Fast Flux Test Facility Closure	3.9	2.0	1.8
Total Estimate at Complete		659.6	559.7	99.9
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition	0.0	0.0	0.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	0.0	0.5	(0.5)
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.0	(0.0)
RL-0013	Waste and Fuels Management Project	0.0	2.1	(2.1)
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	8.5	(8.5)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	4.2	(4.2)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	5.1	(5.1)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
Total Incremental Work Scope		0.0	20.5	(20.5)
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	134.5	129.8	4.7
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	32.4	30.8	1.5
RL-0012	15-D-401 Sludge Retrieval Project	65.0	43.5	21.5
RL-0013	Waste and Fuels Management Project	112.1	96.4	15.7
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.6	120.9	5.7
RL-0040	Nuclear Facility D&D, Remainder of Hanford	38.9	33.6	5.2
RL-0041	Nuclear Facility D&D, River Corridor	146.3	123.0	23.3
RL-0042	Fast Flux Test Facility Closure	3.9	2.0	1.8
Total		659.6	580.2	79.5

Funds/Variance Analysis

FY2017 expected funding did not change in the month of June and remains at \$659.6 million. The total spending forecast increased \$6.6 million from last month, which is attributed to increases in RL-0011 and RL-0013 for additional resources, and RL-0040 for the PUREX tunnel incident. The forecast increase is offset by decreases in RL-0041 for incorporation of trends and delay in waste site excavation.

BASELINE CHANGE REQUESTS

In June 2017, CHPRC approved and implemented 12 Baseline Change Requests (BCRs) into the Performance Measurement Baseline (PMB). Six of the 12 BCRs impacted the PMB. Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCR-012C-17-011R0	<i>SRP ECRTS Alternate Water Supply MR Draw</i>	RL-0012	This BCR drew Management Reserve (MR) for future handling for mitigation associated with a single point failure of the skimmer pump used during retrieval operations in the 100KW Basin. This BCR increased the PMB value by \$171K.
BCR-012C-17-012R0	<i>EVM Health Corrections for RL-0012 CAP Project</i>	RL-0012	This BCR incorporated Earned Value Management (EVM) health schedule corrections for compliance with DOE Earned Value Management Interpretation Handbook (EVMSIH) Schedule Health checks. This BCR does not change the PMB value.
BCR-030-17-021R0	<i>Incorporate CO #318 200-WA-1 & 200-BC-1 OUs Characterization NTE Increase</i>	RL-0030	This BCR incorporated the scope and NTE increase for Contract Modification 593 for CO #318 for 200-WA-1 and 200-BC-1 Operable Units Characterization. This BCR increased the PMB value by \$537K.
BCR-030-17-022R0	<i>Defer RL-0030 Planning Packages</i>	RL-0030	This BCR deferred Planning Packages to September of FY2018 based on funding and IPL. This BCR does not change the PMB value.
BCR-030-17-023R0	<i>Contract Mod 493, Re-plan Analytical Services</i>	RL-0030	This BCR re-planned analytical services consistent with Contract Modification 493, for discontinuing the mandatory service provider. This BCR decreased the PMB value by \$4,795K and allocated it to Management Reserve
BCR-040-17-014R0	<i>RL-0040 Add TPA Milestone M-085-80A to PMB</i>	RL-0040	This BCR added Tri-Party Agreement Milestone M-085-80A "Submit DQO Report to Ecology on Structural Integrity of the PUREX Storage Tunnels 1 & 2" to the PMB. This BCR does not change the PMB value.
BCR-040-17-016R0	<i>PUREX NTE Recovery / Stabilization of Tunnel</i>	RL-0040	This BCR incorporated contract modification for scope associated with the NTE for emergency recovery actions due to the partial tunnel roof collapse and initial planning for a long term tunnel stabilization solution at PUREX. This BCR increased the PMB value by \$2,900K.
BCR-041-17-017R0	<i>324 Disposition Project Schedule Clean-Up</i>	RL-0041	This BCR aligned the start/finish dates for LOE activities to the FY2017 and FY2018 start/finish dates. Additionally, a G&A resource code was used in WBS 041.04.01.01.01 in error. The budget quantities in this resource code have been moved to the correct resource code. This BCR does not have a significant impact on the PMB value.
BCR-041-17-027R0	<i>Incorporate CO #305, Increase the NTE Cost Authority</i>	RL-0041	This BCR incorporated the scope and NTE increase for contract mod 600 for change order #305, 300-296 Waste Site Project. This BCR increased the PMB value by \$9,746K.
BCRA-PRC-17-017R0	<i>HPIC Updates June 2017</i>	RL-0012, RL-0013, RL-0030, RL-0040, RL-0041, 000s	This BCR incorporated June FY2017 Hanford Programs Integrated Control Module (HPIC) updates. This BCR does not change the PMB value.

Change Request #	Title	PBS	Summary of Change
BCR-PRC-17-029R0	<i>Update Level 1 WBS Dictionaries</i>	RL-0011, RL-0012, RL-0013, RL-0030, RL-0040, RL-0041, RL-0042, 000s	This BCR updated the Level 1 WBS Dictionaries for RL-0011, RL-0012, RL-0013, RL-0030, RL-0040, RL-0041, RL-0042, and the 000 accounts to be in alignment with all changes made to the PMB. This BCR does not change the PMB value.

The Allocated (Distributed) Budget increased by \$8,559K.

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-027R0	<i>Undistributed Budget Adjustments June 2017</i>	RL-0012, RL-0013, RL-0030, RL-0040, RL-0041	2017-2018	\$3,819K

The Undistributed Budget increased by \$3,819K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-012C-17-011R0	<i>SRP ECRTS Alternate Water Supply MR Draw</i>	RL-0012	2017 – 2018	-\$171K
BCR-030-17-023R0	<i>Contract Mod 493, Re-plan Analytical Services</i>	RL-0030	2017 – 2018	\$4,795K

Overall, there was an increase in Management Reserve (MR) of \$4,624K during June.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2017 – 2018	N/A

Overall, there was no change to the Fee during June.

See the Format 3 Report in Appendix A for a listing of the specific change requests that had an impact on the PMB budget by fiscal year. The PMB values of change requests are summarized by fiscal year in the tables below (dollars in thousands):

June 2017 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
May 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	486,620	453,452	2,307,873	5,699,350	5,699,350
MR	0	0	0	0	30,923	31,798	62,721	62,721	62,721
Fee	155,504	14,325	14,501	27,804	10,546	18,636	85,811	241,315	241,315
Total	3,546,981	405,978	485,824	532,630	528,088	503,886	2,456,405	6,003,386	6,003,386
June 2017 Change									
PMB									
Change to PMB	0	0	0	0	11,956	421	12,378	12,378	12,378
MR									
Change to MR	0	0	0	0	-171	4,795	4,624	4,624	4,624
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	0	0	0	11,785	5,216	17,001	17,001	17,001
June 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	498,576	453,874	2,320,251	5,711,728	5,711,728
MR	0	0	0	0	30,751	36,593	67,344	67,344	67,344
Fee	155,504	14,325	14,501	27,804	10,546	18,636	85,811	241,315	241,315
Total	3,546,981	405,978	485,824	532,630	539,873	509,102	2,473,406	6,020,387	6,020,387

Changes to/Utilization of Management Reserve in June 2017

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
May 2017 MR Totals								
RL-0011	0	0	0	0	6,875	0	6,875	6,875
RL-0012	0	0	0	0	6,411	3,262	9,673	9,673
RL-0013	0	0	0	0	1,422	7,208	8,629	8,629
RL-0030	0	0	0	0	8,081	10,380	18,462	18,462
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	8,095	10,847	18,942	18,942
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	30,923	31,798	62,720	62,720
June 2017 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	(171)	0	-171	-171
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	4,795	4,795	4,795
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	-171	4,795	4,624	4,624
June 2017 MR Totals								
RL-0011	0	0	0	0	6,875	0	6,875	6,875
RL-0012	0	0	0	0	6,240	3,262	9,502	9,502
RL-0013	0	0	0	0	1,422	7,208	8,629	8,629
RL-0030	0	0	0	0	8,081	15,175	23,256	23,256
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	8,095	10,847	18,942	18,942
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	30,751	36,593	67,344	67,344

SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Contract Section H.20 clause entitled *Self-Performed Work*.

Contract-to-Date Actual Awards & Mods 10/1/2008 - 6/29/2017				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,720,084,369
	\$ Value	%	Goal %	Contract-to-date awards:	\$2,552,980,435
				Bal remaining to award:	\$167,103,934
				Goal award\$	Bal to Goal
SB	\$1,409,310,560	55.20%	49.3%	\$1,341,001,594	-\$68,308,966
SDB	\$256,179,807	10.03%	8.2%	\$223,046,918	-\$33,132,889
SWOB	\$270,277,596	10.59%	7.5%	\$204,006,328	-\$66,271,269
HUB	\$64,148,708	2.51%	2.2%	\$59,841,856	-\$4,306,851
VOSB	\$197,786,342	7.75%	3.5%	\$95,202,953	-\$102,583,389
SDVO	\$116,096,870	4.55%	1.3%	\$35,361,097	-\$80,735,773
NAB	\$57,126,339	2.24%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	\$652,650,528	25.56%	N/A		
GOVT	\$3,472,219	0.14%	N/A	CHPRC Contract Value: \$5,732,255,464	
GOVT CONT	\$483,186,359	18.93%	N/A		
EDUCATION	\$112,519	0.00%	N/A	17% rqmt:	\$974,483,429
NONPROFIT_	\$3,822,498	0.15%	N/A	SB actual:	\$1,409,310,560
FOREIGN	\$425,752	0.02%	N/A	Bal to rqmt	-\$434,827,131
Total	\$2,552,980,435	100.00%	N/A		

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.5 billion in goods and services, with over 55 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments, with 6 percent of the remaining expenditures arising from PCard purchases and 3 percent from the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport transuranic (TRU) materials outbound/inbound between the Hanford Site and Perma-Fix Northwest, Inc. (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	Waste Isolation Pilot Plant (WIPP) provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office (CBFO).	No WIPP shipments are planned within the contract period of performance.

DOE ACTIONS/DECISIONS

Refer to Sections A through G as well as Appendix C of this report for the project specific DOE Actions / Decisions.

Section A

Nuclear Materials Stabilization and Disposition of PFP (RL-0011)



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. All gloveboxes have been removed from E4 ventilation, and all preparations for demolition starting in the Plutonium Reclamation Facility (PRF) are complete. Initiation of demolition on the PRF started in early November 2016. Initiation of demolition on the 242-Z Facility started in early January 2017 and was completed in April 2017. Demolition on the 236-Z facilities is ongoing. Demolition activities for 291-Z are projected to begin in early July 2017.

The Plutonium Finishing Plant (PFP) Closure Project continues to maintain PFP facilities compliant with authorization agreement requirements.

Significant accomplishments in June included:

- Transitioned 291-Z Documented Safety Analysis (DSA) to the demolition phase.
- Continued modifications to the 234-5Z Facility to support removal of HC-7C and 227T gloveboxes from 234-5Z.
- Completed grouting the 291-Z sump pit.
- Completed draining, venting, isolating, drying, and epoxy filling of transuranic (TRU) drain lines in the 234-5Z below-grade tunnels.
- Continued demolition activities on the 236-Z Facility by removing three sections of the gallery gloveboxes.
- Completed grouting the 291-Z sump pit.
- Applied fixative to the 291-Z stack.
- Abated 525 feet of asbestos.
- Removed or dispositioned in place 47 feet of process vacuum piping.
- Shipped 1 cubic meter (m³) non-radioactive waste.
- Shipped 10 m³ TRU waste.
- Shipped 318 cubic meters of m³ low level waste/mixed low level waste (LLW/MLLW).

Key Metrics

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
COMPLETE Glovebox/ Hood Removed or Dispositioned in Place	-	232 gloveboxes/hoods
COMPLETE KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/Asbestos Containing Material (ACM) Removed	525	33,614
Process Vacuum Piping Dispositioned	47	7,113 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	50 structures
Buildings Demolished or Removed	-	49 structures
Non-radioactive Waste Shipped	1	82 m ³
Transuranic/Transuranic Mixed (TRU/TRU-M) Shipped	10 m ³	2,497m ³
LLW/MLLW Shipped	318 m ³	9,515 m ³

Environmental Management System (EMS) Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
16-EMS-PFP-OB1-T1	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Inspect 234-5Z, 236-Z, 242-Z, and 291-Z for the presence of asbestos containing materials (ACM) and produce a report identifying ACM, requiring removal or abatement and methods for protecting remaining ACM from resulting in visible emissions.	1. Issue report documenting thorough inspection of 236-Z.	08/16/16	100%
			2. Issue report documenting thorough inspection of 242-Z.	05/26/16	100%
			3. Issue report documenting thorough inspection of 234-5Z. (Scheduled to complete early June 2017.)	04/30/17	100%
			4. Issue report documenting thorough inspection of 291-Z.	05/30/17	100%
17-EMS-PFP-OB1-T1	Reduce the risk of noncompliance with environmental requirements during demolition at PFP.	Reduce risk of noncompliance with applicable environmental requirements by enhancing the environmental screening process for demolition packages for 242-Z, 234-5Z, and 291-Z, thereby reducing the overall impacts from PFP's significant aspects.	1. Create ready-for-demolition checklist for 242-Z/ZA.	11/30/16	100%
			2. Review 242-Z/ZA demolition work package against environmental requirements.	12/29/16	100%
			3. Create ready-for-demolition checklist for 291-Z.	02/28/17	100%
			4. Review 291-Z demolition work package against environmental requirements.	03/30/17	100%
			5. Create ready-for-demolition checklist for 234-5Z.	03/30/17	100%
			6. Review 234-5Z demolition work package against environmental requirements.	04/27/17	100%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	2	69	<ul style="list-style-type: none"> 6/9/2017 - Employee tripped on an unknown object lying on the floor of the vehicle, causing a fall to the ground and injury to left elbow and left rib area. Employee was taken to HPMC for evaluation and treatment, and returned to work without restrictions. (24486) 6/23/2017 - Employee attempted to open a job box and felt a pull coming from the left shoulder, pain up the neck, and down the left arm. Employee reported previous injury to left shoulder sometime in the March/April/May 2015 time frame and has been experiencing pain and discomfort ever since. (24504)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

234-5Z

- Abated 525 feet of asbestos.
- Removed or dispositioned in place 47 feet of process vacuum piping.
- Completed draining, venting, isolating, drying, and epoxy filling of transuranic (TRU) drain lines in the 234-5Z below-grade tunnels.
- Continued modifications to the 234-5Z Facility to support removal of HC-7C and 227T gloveboxes from 234-5Z.

291-Z

- Transitioned 291-Z DSA to the demolition phase.
- Finalized the draft of the 291-Z-1 Stack demolition work package and submitted to the Hazard Review Board for final approval.
- Completed grouting the 291-Z sump pit.
- Applied fixative to the 291-Z stack.

PFP Waste Operations

- Shipped 10 m3 TRU/TRUM waste.
- Shipped 318 m3 LLW/MLLW.

Demolition Activities

- Continued demolition activities on the 236-Z Facility and removed three sections of the gallery gloveboxes.

PTS

- Training and Procedures
 - Completed training and procedure actions for exhaust fan shutdown at PFP.
- Operations Program
 - Conduct of Operations/Work Control/Conduct of Work
 - Performed annual lockout/tagout review for PFP.

MAJOR ISSUES

Issue:

- On June 8, 2017, a Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of Gallery Glovebox 2nd west (hereafter referred to as GB3) from the PRF. Demolition activities were stopped and Radiological Control Technicians (RCT)s began surveys in preparation to egress personnel. Several spots of contamination were found outside of posted radiological areas following the alarm.

Corrective Action:

- Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached.
- Evaluate the use of the foggers.
- Revise or incorporate additional controls into the work package as appropriate.
- Evaluate the boundaries to incorporate available radiological data.
- Evaluate the fixative concentration.
- Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package.
- Evaluate the need for additional contamination engineering controls.
- Evaluate the method for determining acceptable wind speed.
- PFP provides real-time data from the event to Dr. Napier for consideration with future models.

Status:

- Corrective Action Report in works.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																				
		Month	Trend																					
RL-0011/WBS-011.OA																								
Explanation of major changes to the project monthly spotlight chart: PFP-DEMO-16 was added as a Realized Risk in the month of June.																								
Realized Risks (Risks that are currently impacting project cost/schedule)																								
PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up	Unexpected or late discovery of radiological (Pu) or chemical (asbestos) holdup requiring added facility deactivation. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$380K, 24 days			<p>Risk Event: Based on characterization data, the amount of asbestos insulated piping to be removed had been estimated since fiscal year 2013 to be approximately 24,000 linear feet. In January, about an additional 10,000 feet of asbestos was discovered, taking the total of asbestos to be removed to about 35,827 feet. No additional asbestos was discovered in June. With June 2017 progress, the PFP project has actually removed over 33,614 linear feet to date, with additional asbestos still remaining to be removed.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Risk Recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Collaborate with safeguards to develop and approve safeguards termination criteria for remnant piping and duct work.</td> <td>01/09/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.</td> <td>01/09/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections.</td> <td>01/09/17</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Finalize path forward for stubs and segments.</td> <td>4/27/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Assessment: Based on completed inspections, this risk has been realized by additional TSI identified that was not part of the original engineering estimate that was used to develop the RL-011 baseline. Recovery actions focus on managing the need for added asbestos abatement work. Discussions with RL are underway on utilizing contingency funds to strengthen the asbestos abatement work force to complete the added scope of work. With respect to the emerging risk regarding characterization of remnant stubs and piping left for facility demolition, RL formally accepted the proposed safeguards termination criteria. Current accounting of remnants is tracking to achieve criticality incredibility conditions. Final consideration of impacts to air dispersion modeling as well as waste disposition have been evaluated, resulting in finalizing the scope of ductwork in need of removal and that which can remain in place for demolition. While the safeguards, criticality safety, and air dispersion programmatic action has enabled the opportunity to reduce the scope of remaining ongoing facility deactivation work, such relaxation does not come without added rigor. There is now a need to determine whether or not it is best to either apply fixatives and verify effectiveness, or foam, or continue with planned removal of an itemized list of stubs and segments. Given the potential impact to the 234-5Z demolition schedule, per PRC-MP-PC-40167, this risk remains critical.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	Collaborate with safeguards to develop and approve safeguards termination criteria for remnant piping and duct work.	01/09/17	Complete	100	Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.	01/09/17	Complete	100	Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections.	01/09/17	Ongoing	N/A	Finalize path forward for stubs and segments.	4/27/17	Complete	100
Risk Recovery action(s)	Risk Date	FC Date	%																					
Collaborate with safeguards to develop and approve safeguards termination criteria for remnant piping and duct work.	01/09/17	Complete	100																					
Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.	01/09/17	Complete	100																					
Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections.	01/09/17	Ongoing	N/A																					
Finalize path forward for stubs and segments.	4/27/17	Complete	100																					

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.OA												
<p>PFM-DEMO-16: Contamination Spread Beyond Established Boundaries</p>	<p>Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events or wildlife result in cost impacts and schedule delays.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$3 million, 30 days</p>	●	↔	<p>Risk Event: A Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of GB3 the PRF on Thursday, June 8, 2017. Demolition activities were stopped and RCTs began surveys in preparation to egress personnel.</p> <table border="1"> <thead> <tr> <th>Risk Recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Corrective Actions are being developed and will be included in the monthly report for July reporting.</td> <td>6/8/17</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The controls identified in the work package are noted to be limited by the inputs, which are provided. Seven areas of weakness were discussed, and several issues and potential areas of weakness of the control set were identified:</p> <ul style="list-style-type: none"> • Did not call out specific cautions regarding high pressure streaming or fogging. • The boundary was not established far enough out from the demolition area. • Did not specify the method to be used for wind limitations. • Fixative concentration may have been less than adequate. • The weather forecast was not an input to activities when MAR components of high gram quantities would be handled. • Additional engineering controls needed (e.g. ventilation, in regard to total gram value available for release). <p>The work package for the remaining activities for the 236-Z demolition work will be revised to incorporate all corrective actions identified in the causal analysis when it has been completed in July.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	Corrective Actions are being developed and will be included in the monthly report for July reporting.	6/8/17	TBD	0
Risk Recovery action(s)	Risk Date	FC Date	%									
Corrective Actions are being developed and will be included in the monthly report for July reporting.	6/8/17	TBD	0									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
No critical risks identified in the month of June .												
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)												
<p>PFM-DEMO-24: Stop work from concerned workers</p>	<p>Concerned workers results in a stop work to address an off-normal or safety issue. The work cannot be restarted until the implementation of corrective actions is completed.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$0K, 24 days</p>	●	↑	<p>Risk Trigger: The project experiences stop works from concerned workers due to SCBA cylinders, failed respirator equipment, chemical concerns, contamination events, and jurisdictional issues.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of June. The mitigation strategies have been put in place. As a result, the risk strategy is to accept with no further mitigation actions. Per Q3 risk reviews, it was determined that this risk is no longer a key risk to the project. As such, it will be removed from the Stoplight Report in July.</p>	Mitigation action(s)	FC Date	%	None identified at this time	N/A	N/A		
Mitigation action(s)	FC Date	%										
None identified at this time	N/A	N/A										
Unassigned Risks (Pending ownership of identified risks/opportunities)												
No unassigned risks identified in the month of June .												

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.0	2.7	11.0	2.7	6849.6%	(8.3)	-306.6%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (+\$2.7M/+6849.6%)

The current month positive schedule variance is primarily due to completion of historical BCWS associated with 26-inch process vacuum removal, asbestos, drain lines, E3/E4 duct, and trench grouting and drain line remediation, as well as final decontamination/fixative application, hazard removal, and isolation activities in 291-Z. Also contributing is the performance of the behind schedule demolition work scope associated with the demolition of the 236-Z and 291-Z facilities. The 236-Z Facility was originally planned for demolition to begin during the third quarter of 2016. However, delays in getting 236-Z and 242-Z ready for demolition negatively impacted the start of 236-Z demolition. Demolition of 236-Z is currently scheduled to complete on September 18, 2017, and 291-Z is set to complete on July 20, 2017. Because all work is historical, the current schedule variance will be favorable going forward. The positive variance is partially offset by performing work on an additional 10,000 feet of asbestos identified in the month of December 2016 that was not visible on any plant drawings when the baseline was developed.

CM Cost Variance: (-\$8.3M/-306.6%)

The current month negative cost variance is primarily due to the delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. Further, working historical BCWS for removal of HC-7C and 227T gloveboxes and work on E4 duct removal and fixative requiring more effort than expected, in addition to continued support on apportioned activities associated with the discrete work efforts, are also contributing to this variance. Crews were applying fixative utilizing a fogging method that proved successful in many instances. However, in some sections of ducting, scaffold was required to get to hard-to-reach sections, thus requiring additional painting resources to ensure ducting was adequately applied. In addition, asbestos abatement and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of an approximately 10,000 additional feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition ready activities. As delays in ready-for-demo activities have been recognized, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities for TRU waste disposition efforts. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP project until the slab-on-grade milestone is met. The negative cost variance is partially offset by recognized efficiencies wherein crews were able to complete the process vacuum removal in 291-Z with less effort than

originally planned. Characterization results indicated lower levels of hold-up than planned, which allowed more efficient piping removal. Isolations of the 291-Z Facility have also proved to take less time than anticipated due to the main electrical power being cut outside of the building rather than performing individual isolations within the facility. Hazardous Material removal and decontamination/fixative applications demonstrated effective with less effort than originally planned using methods proven more efficient (e.g. using powerful fans to assist with vertical fixative flow up the stack).

Contract-to-Date (\$M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	980.1	941.9	1,035.9	(38.2)	-3.9%	(94.0)	-10.0%	980.5	1,074.7	(94.2)

Numbers are rounded to the nearest \$0.1 million

Contract-to-Date (CTD) Schedule Variance (-\$38.2M/-3.9%)

The CTD schedule variance is within threshold.

CTD Cost Variance (-\$94.0M/-10.0%)

The negative CTD cost variance is primarily a result of prior year unrecoverable costs, as well as impacts to the D&D work scope and extending level-of-effort and support services, consistent with delayed activities, in support of completing Tri-Party Agreement Milestone M-083-00A. In addition, unplanned costs to support implementation of efficiency initiatives at PFP (i.e., foaming and PremAire Breathing Air), and increased training as a result of assignment of new Health Physics Technicians, and D&D workers (as the result of Hanford Atomic Metal Trades Council lamping process) to PFP have also contributed to this variance. Additional resources to recover schedule for asbestos removal activities and to cover the additional asbestos needing to be removed that was recently identified (about 10,000 feet). Additional unplanned shipping materials (waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities for TRU waste disposition efforts. Unplanned shipments to Perma-Fix Northwest, Inc. for the size reduction of 236-Z gloveboxes (MT-4 and 18M) and E4 ducting in 234-5Z have caused additional costs to support ready-for demo activities also contributing to the unfavorable variance. The negative cost variance is partially offset by utilizing fewer breathing air suits and hoses being used than originally planned for 242-Z entries as a result of fewer fieldwork team members required to perform hands-on work in 242-Z because of the confined space and size of suits (three suits per day vs. five), and recognized efficiencies where crews were able to complete process vacuum removal in 291-Z with less effort than originally planned. Characterization results indicated lower levels of hold-up than planned, which allowed more efficient piping removal. Isolations of the 291-Z Facility have also proven to take less time than anticipated due to the main electrical power being cut outside of the building rather than performing individual isolations within the facility. Hazardous Material removal and decontamination/fixative applications demonstrated effective with less effort than originally planned using methods proven more efficient (i.e. using powerful fans to assist with vertical fixative flow up the stack).

Variance at Completion (-\$94.2M/-9.6%)

The Variance at Completion (VAC) unfavorable variance is reflective of previous inability to achieve 20 percent increased efficiency associated with time on respirator as assumed in the baseline plan. The

Collective Bargaining Agreement was accepted, and recognized efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with high-mass gloveboxes and grouting. Extended hotel loading costs as a result of delays in demolition-ready and demolition activities caused by issues identified in the CTD schedule variance above are also driving the negative VAC. As a result of wall removals and electrical isolations, it was discovered that approximately 10,000 feet of additional asbestos was between the walls that would need to be removed. This is a recognized risk (PFP-092-02) and has been incorporated into the VAC. Of note, CHPRC is working with RL to utilize contingency for the additional 10,000 feet of asbestos identified during walkdowns and inspections, impacts from the criticality alarm, and relief from the 30 days of weather delays experienced from December 2016 through March 2017. Finally, increased utilization of overtime is being used to ready the 234-5Z Facility for demolition by June 2017. This unfavorable variance is partially offset by recognized efficiencies due to characterization data in the 234-5Z duct level allowing piping and ducting to be left in place for demolition. The variance at completion is reflective of PFP's current projected date to reach slab on grade no later than September 30, 2017.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	134.5	129.8	4.7
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	134.5	129.8	4.7

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2017 expected funding for the project breakdown structure (PBS) RL-0011 remained at \$134.5 million. The fiscal year spend forecast (FYSF) for June increased to \$129.8 million associated with a three week delay in completion of demolition activities. The funds in this control point for estimate to complete (ETC) for regular scope are adequate to support current work. Recognized efficiencies will be necessary to support slab removal if RL direction to perform this work is received.

Critical Path Schedule

The PFP Critical Path schedule begins with the continuation of duct removal/fixative application and filter room clean out. The heating ventilation, and air conditioning (HVAC) activities are performed in parallel to the mechanical isolations throughout 234-5Z to support the transition to demolition. Once ready for demo in 234-5Z, A-Labs is the first section of the building to be demolished. Followed by the demolition of Backside Rooms/Plutonium Process Support Laboratories (PPSL), which then moves to Remote Mechanical A (RMA) Process Line and RMC Process Line in 234-5Z. Finally, the demolition of the Radioactive Acid Digestion Test Unit (RADTU) and basement areas completes the 234-5Z Facility,

meeting the requirements for the Tri-Party Agreement Milestone – M-083-00A – *PFP Facility Transition and Selection Disposition Activities*.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) Annual Update, implemented in September 2013, and subsequently approved Baseline Change Requests (BCRs) define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a two-year look ahead of commitments and Tri-Party Agreement enforceable milestones.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/17		9/29/17	During the month of June, the PFP project lost 18 days on the schedule from the May month-end forecast completion date of the Tri-Party Agreement milestone for the PFP Project to reach slab-on-grade. This loss is a result of impacts from recovery from a contamination event associated with the demolition of the 236-Z Facility. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and implemented to recover some schedule delays.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS RL-0011, Plutonium Finishing Plant Closure Project	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and Perma-Fix Northwest, Inc. (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing

DOE ACTIONS / DECISIONS

None at this time.

Section B

Spent Nuclear Fuel Stabilization and Disposition (RL-0012)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

T Plant facility modifications for sludge storage completed on May 24, 2017 (PM-12-4-17).

Initiated K-Basin Pre-operational Acceptance Testing (KPAT) on April 20, 2017. Testing continued through June and is forecast to complete October 11, 2017.

The 105KW Basin Final Safety Analysis (FSAR) and Technical Safety Requirements (TSR) revision to support integrated KPAT testing is forecast to be approved by June 30, 2017.

Continued working with RL to address comments arising from Documented Safety Analysis (DSA)/TSR revision submitted on April 12, 2017. RL approval is required by July 21, 2017, to avoid impacts to the project's internal (accelerated) critical path and performance measure PM-12-3-17, *Implement approved integrated KW Basin Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR)*.

Based upon discussions between RL and CHPRC senior management, the Sludge Treatment Project (STP) team has modified the field execution schedule (FES) to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105K and T Plant* for RL approval. RL responded with Change Proposal (CP) Request for Information (RFI) – 1646-1, 2, and 3, dated April 28, 2017, May 12, 2017, and May 17, 2017, respectively. CHPRC prepared and formally transmitted formal responses to RL in June. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce the schedule duration.
- Approval of the integrated 105KW DSA must not affect the project's critical path. This integrated DSA/TSR includes as-built information from installation activities, and therefore, a subsequent "as-built" DSA/TSR submittal is not required.
- Sludge Removal Project (SRP) CD-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of the T Plant safety documentation must be completed within 120 days of submittal.

To demonstrate the current forecast date of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin Sludge Removal From 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current non-risk adjusted forecast date to begin sludge removal is January 29, 2018.

The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued as resources allow. Work must be completed prior to the start of sludge retrieval (Tri-Party Agreement M-016-175).

Project breakdown structure (PBS) RL-0012 scope is 91.8 percent complete, with a cumulative Schedule Performance Index (SPI) of 1.00 and a Schedule Cost Performance Index (CPI) of 1.05.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	1	N/A
Recordable Injuries	0	0	N/A
First Aids	2	17	<ul style="list-style-type: none"> 6/01/2017: While standing outside in anti-c's in the sun during a drill, the employee became overheated. Body part affected: Whole body (24475) 6/20/2017: While wearing cotton-lined gloves, employee developed skin irritation. Body part affected: Hands (24499)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

100K Operations

- The 100K Operations group continued maintaining facilities in a safe and compliant condition. Crews continued debris dose mapping, relocation activities in 105KW Basin, and performance of several monthly and quarterly routines during the period.

KW Basin Sludge Removal Capital Asset Project

- KPAT/Construction
 - Initiated KPAT testing on April 20, 2017. Completed a substantial number of component level and system leak tests. As of June month end, the test is approximately 24 percent complete.
 - The KPAT Team successfully replaced four leaking or suspect supplied air mechanical, bulkhead connections adjacent to the Booster Pump Pulsation Dampeners via long handled, pole tools. Post replacement leak testing on both Booster Pump Trains confirmed the integrity of all repaired joints on those skids.
 - Completed TDR-069, Retest of Condensate Seal Pot Low Level Switch Intermittent Alarm.
 - Completed Section 4.5; Annex Control System Functionality following rewiring per TDR-074.
 - Installed Annex IXM Simulator Ozone generator per TDR-073 and completed in-service leak test.
 - Completed final loop checks for transfer system instruments.
 - Completed troubleshooting and testing on the Annex Lift Station, back-up generator, and made preparations to start testing the Rad monitoring equipment.
 - Completed Annex Preventive Maintenance for the month.

- RL is drafting the Safety Evaluation Report (SER) approving the One Time Request for Shipment (OTRS) document. The SER for this important document is anticipated in mid-July. CHPRC Transportation Safety personnel have also completed a draft OTRS implementation compliance matrix, which will be finalized once the OTRS SER is received.
- The Maintenance and Storage Facility (MASF) Pre-Operational Acceptance Test (MPAT) Report was approved by the STP Joint Test Group on January 31, 2017. However, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in July 2017.
- ECRTS Procurement: Installation of Sludge Transport & Storage Container (STSC) Instrumentation & Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC assemblies by September 30, 2017 – four of 12 STSC assemblies have been completed as of June month-end. Due to the retirement of the subcontractor performing final Mass Spectrometer Leak Detector (MSLD) Leak Testing Services for HiLine, an alternate strategy had to be implemented to execute the remaining MSLD testing. HiLine hired an individual to facilitate completion of this nondestructive examination (NDE), however, the HiLine QA Program had to be updated to add MSLD NDE and associated submittals must be approved by CHPRC personnel prior to initiating remaining MSLD testing. An approximately three to four week slip was incurred for achieving the PM.
- American Boiler Works (ABW) will also complete fabrication of the final 11 STSC shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations continues in parallel with approval of safety documentation. As of June month end, 31 of 79 procedures are drafted.

T Plant Preparations

- o Completed Dock Number 2 removal and signed Construction Completion Document (CCD).
- o Completed excavation and concrete placements for T Plant Dock Number 2 repair.
- Training and Procedures
 - o Completed Sludge Overview training to T Plant personnel.

MAJOR ISSUES

Sludge Removal Project

Issue:

The schedule for receipt and implementation of the integrated DSA/TSR for the 105KW Basin/Annex will no longer support the KPAT integrated test without impacting the SRP critical path.

Corrective Action:

CHPRC updated the DSA/TSR to incorporate RL comments and retransmitted the document sent to RL for approval. Approval of these documents precedes preparation of SRP training material, procedures, formal safety basis implementation, and completion of readiness preparation activities prior to the Operational Readiness Review (ORR) authorizing full-up ECRTS Operation. Simultaneously, a revision to the existing FSAR has been prepared, approved, and submitted to RL for review/approval. This FSAR revision should enable execution of integrated KPAT without impacting SRP critical path.

Status:

CHPRC personnel updated the Integrated DSA/TSR to incorporate comments provided by the RL Safety Basis Review Team (SBRT) and retransmitted the updated files to RL on April 12, 2017, via CHPRC-1700081A R3 - *Transmittal of PRC-STP-00946, Revision 0, 105KW Facility Documented Safety Analysis, PRC-STP-00992, Revision 0, 105KW Facility Technical Safety Requirements, and HNF SD SNF-FHA-001, Revision 5, Fire Hazards Analysis for the 105KW Facility*. The current schedule forecast for RL approval is July 21, 2017.

In order to prevent a schedule delay on the initiation of the integrated KPAT, CHPRC submitted a revision to the FSAR/TSR for the 105KW Basin that addresses the control necessary to facilitate completion of that integrated test. The FSAR revision is forecast to be approved by RL by June 29, 2017.

T Plant Major Issues**Issue:**

CHPRC submitted the Solid Waste Operations Complex (SWOC) Master Documented Safety Analysis (MDSA)/TSR Revision 12 to RL for review and approval on November 28, 2016. On March 30, 2017, the RL Contracting Officer transmitted letter 17-NSD-0018_RL to CHPRC providing an RL Review Comment Record (RCR) against the SWOC MDSA/TSR Revision 12 requiring resolution of 35 pages of comments and a resubmittal. The schedule for receipt of a Safety Evaluation Report (SER) approving the SWOC MDSA is currently beyond the schedule assumptions in the performance management baseline (PMB) and is in jeopardy of negatively impacting the SRP critical path.

Corrective Action:

Work with the RL Nuclear Safety Division (NSD) staff to resolve comments as expeditiously as possible, which includes expediting comment incorporation, CHPRC internal approval of the updated MDSA/TSR Package, and RL approval of that package.

Status:

Comment resolution is completed, and the updated MDSA/TSR was resubmitted to RL in May 2017. The current schedule forecast for RL approval is July 17, 2017.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change



Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.



Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.



Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.



Increased Confidence



No Change



Decreased Confidence

Unmitigated Risk Impacts	Assessment		Comments																								
	Month	Trend																									
RL-0012/WBS-012																											
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.																											
Realized Risks (Risks that are currently impacting project cost/schedule)																											
<p>STP-072: Delayed STSC/ECRTS Procurement & Delivery</p> <p>Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the Sludge Treatment Plant (STP), resulting in cost impacts and schedule delays. Additionally, discovery of additional components requiring fabrication result in deliveries that challenge project baseline schedules.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$3 million, 120 days</p>	●	↑	<p>Risk Event: Event 1: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project's needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of the baseline material procurement plans.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Event 1 - Finalize Field FES activities dates consistent with change orders.</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete Procurement/Fabrication</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Deliver equipment to 100K Area</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Replace STS Cask Seals</td> <td>12/7/16</td> <td>07/31/17</td> <td>0</td> </tr> <tr> <td>Conduct post repair leak test</td> <td>12/7/17</td> <td>08/29/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: No major changes in the month of June. Event 1: Additional leak test tooling has been placed on order and is scheduled to arrive in July. Proof test on new seals will be delayed until fabrication of Cask Leak Test Tool and qualification by Nondestructive examination (NDE) Contractor.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Event 1 - Finalize Field FES activities dates consistent with change orders.	12/7/16	Complete	100	Complete Procurement/Fabrication	12/7/16	Complete	100	Deliver equipment to 100K Area	12/7/16	Complete	100	Replace STS Cask Seals	12/7/16	07/31/17	0	Conduct post repair leak test	12/7/17	08/29/17	0
Risk recovery action(s)	Risk Date	FC Date	%																								
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Conduct post repair leak test	12/7/17	08/29/17	0																								
<p>STP-067A Safety Classification of SSCs - DSA/TSR</p> <p>RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a more conservative safety classification, requiring CHPRC to revise key safety documentation (DSA and TSR), procedures and/or design(s). Upon submittal of revised DSA/TSR, procedures and/or design(s), RL approval takes longer than the assumptions planned for in the baseline.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$300K, 120 days</p>	●	↑	<p>Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016, in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. CHPRC resubmitted the DSA/TSR via CHPRC-1700081A R3 on April 12, 2017. The original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 249 days (as of June 25, 2017) since the original submittal, with formal approval still not imminent.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Solicit senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL SBRT and CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>As Required</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: RL and CHPRC senior management have met multiple times in an attempt to resolve differences on the DSA/TSR submittal. All DSA/TSR comments from the initial submittal were dispositioned as of February 17, 2017. CHPRC resubmitted an updated version of the DSA/TSR incorporating RL comments on April 12, 2017. Obtaining RL concurrence on comment resolution is in progress and is now forecasted to complete on July 13, 2017. The current forecast for receiving a SER approving the DSA/TSR is July 21, 2017. Once CHPRC has received the SER and confirmed no changes to assumed safety classification is needed, this risk may be closed.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Solicit senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL SBRT and CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	As Required	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100				
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Unmitigated Risk Impacts		Assessment		Comments															
		Month	Trend																
RL-0012/WBS-012																			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
No critical risks identified in the month of June .																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2017 Risk Triggers (Risk could be realized in FY2017)																			
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup	The ECRTS equipment does not operate as expected, requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications because of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.5 million, 90 days			Risk Trigger: 1) The ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Use overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table> Mitigation Assessment: No major changes in the month of June . KPAT Testing is in progress. No significant equipment failures as of May 21, 2017.	Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	Complete	100	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100	Use overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
Mitigation action(s)	FC Date	%																	
Develop and refine procedures based upon feedback from testing and operations personnel.	Complete	100																	
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Use overtime to offset schedule impacts.	As Needed	N/A																	
Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A																	
STP-018-O: STP Operational Upset or Spill - During first STSC	An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays. Risk Handling Strategy: Control Probability: Low (10% to 25 %) Worst Case Impacts: \$2 million, 48 days			FY2018 Risk Triggers: 1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout the project lifecycle until the sludge is removed from 105KW Basin. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td> <td>10/11/17</td> <td>0</td> </tr> <tr> <td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> Mitigation Assessment: No major changes in the month of June . Forecasted mitigation dates are consistent with the overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017.	Mitigation action(s)	FC Date	%	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0	Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	Ongoing	N/A						
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Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	Ongoing	N/A																	
STP-073-C: Processing Efficiency - Retrieval & Shipping	The realized processing efficiency associated with sludge retrieval and shipping operations does not match the baseline plan. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 48 days			FY2018 Risk Triggers: 1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018, beginning with operations campaign. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> Mitigation Assessment: No major changes in the month of June . Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the future and no alternative course of actions are needed at this time.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A									
Mitigation action(s)	FC Date	%																	
None identified at this time.	N/A	N/A																	
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
CHPRC proposed five risks that are outside of CHPRC's ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, "the opportunities and threats appear to be under the control of CHPRC to manage." CHPRC submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL's rejection letter. On March 14, 2017, CHPRC received Correspondence No. 1701045 providing direction to accelerate the capital portion of the SRP. The risks listed, however, are for the non-capital scope. If contract direction is given to accommodate the acceleration opportunities to the SRP non-capital scope and the transfer of all sludge to T Plant is incorporated into FY2018, then CHPRC would re-assume ownership of these risks once change is definitized. As part of the SRP acceleration, risks were re-evaluated and used as the basis for the risk analysis.																			

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	7.2	5.9	3.8	(1.3)	-17.8%	2.1	36.0%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$1.3M/-17.8%)

The current month negative schedule variance is due to work completed earlier in the FY which was planned for the current period. This work included in-basin equipment installation and Annex equipment installation activities. Due to the retirement of the subcontractor performing MSLD testing services for Procurement Set #9 (installing instrumentation and appurtenances to STSCs), an alternate strategy was implemented to execute the remaining MSLD testing. The subcontractor has hired an individual to facilitate completion of this NDE, however, the NDE Program and associated submittals must be approved by CHPRC personnel prior to initiating remaining MSLD testing. In addition, during execution of K-Basin Pre-operational Acceptance Testing (KPAT) an air leak was discovered in the booster pump requiring repair and retesting.

CM Cost Performance (+\$2.1M/+36.0%)

The current month positive cost variance is due to realizing cost efficiencies for work scope completed ahead of schedule. This work included in-basin equipment installation and Annex equipment installation activities. In addition, a review of fabrication contractor's accrual information showed information provided by the contractor was not consistent with progress on the firm, fixed-priced contract. This review resulted in a downward adjustment to the accrued costs to date.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	681.3	680.3	647.9	(1.0)	-0.1%	32.4	4.8%	741.0	708.6	32.4

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-\$1.0M/-0.1%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$32.4M/+4.8%)

The variance is within reporting thresholds.

Variance at Completion (+\$32.4M/+4.4%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2017		Variance
	Projected Funding	Spending Forecast	
Expense - Spending Forecast	32.4	30.3	2.0
Incremental Scope Pending Change Management	0.0	0.5	(0.5)
Expense - Subtotal	32.4	30.8	1.5
Line Item (LI)	65.0	43.5	21.5
Incremental Scope Pending Change Management	0.0	0.0	0.0
LI -Subtotal	65.0	43.5	21.5
RL-0012 – Total	97.4	74.3	23.0

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2017 projected funding for PBS RL-0012 is \$97.4 million. Positive variance of \$1.5 million in expense funding is the result of reclassification of Garnet Filter Media Removal and Sand Filter Media Removal scopes from PBS RL-0012 to PBS RL-0041, savings forecast for sample maintenance from Pacific Northwest National Laboratory (PNNL), and savings forecast for project management scope – work is being performed with reduced staff. Positive variance in line item (LI) for FY2017 is due to receipt of entire LI funding in the current year. Unused funding will be carried over to support work planned for FY2018. A review of fabrication contractor's accrual information showed data provided by the contractor was not consistent with progress on the firm, fixed, priced contract. This resulted in a downward adjustment to the accrued costs to date and a reduction in the FY2017 LI forecast of \$1.6 million.

Critical Path Schedule

The critical path is now driven by both the approval/implementation of the 105K West Basin DSA/TSR and KPAT. KPAT will confirm that the SRP hardware is installed properly and functions consistently with the design. Following a successful Contractor and DOE Operational Readiness Review, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE-HQ review/approval of CD-4. Completing retrieval operations, including the filling of STSCs with sludge and transferring them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is outside the current contract period in FY2019. However, the STP team

has modified the FES to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in FY2018.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved Baseline Change Request (BCRs) define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is the Tri-Party Agreement milestones within the CHPRC contract period (September 30, 2018).

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin Sludge Removal from 105KW Fuel Storage Basin.	9/30/2018		1/29/2018	The forecast date does not include schedule margin from the project's risk analysis. The forecast date does not reflect potential impacts from the delay in approval of safety documentation.
M-016-177	Complete installation of sludge transfer equipment in KW Reactor facilities	9/30/2017		4/20/2017(A)	Complete

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	5/22/17(A)	7/31/17
RL Issue SER for KW Facility DSA/TSR	4/11/17(A)	8/04/17
RL Concur on KW Facility DSA/TSR Comment Resolution	4/11/17(A)	7/13/17
RL Prepare KW Facility DSA/TSR SER	4/11/17(A)	7/25/17
RL Review KPAT FSAR / TSR Change	5/31/17(A)	6/23/17(A)
RL SRB Review of KW Facility DSA/TSR	4/11/17(A)	7/28/17
RL Approve / Comment Plan of Action (POA) - K-Basins	5/25/17(A)	6/28/17(A)
RL Final Approval of POA - K-Basins	7/11/17	7/17/17
RL Approve OTRS	6/01/17(A)	7/31/17

Section C

Solid Waste Stabilization and Disposition (RL-0013)



C. J. Simiele
Vice President for
Waste and Fuels
Management Project

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

During the June reporting period, May 22 – June 25, 2017, Waste and Fuels Management Project (W&FMP) maintained facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies, but continues to be impacted by emerging work and realized risks.

This month:

- The project continued detailed planning for fiscal year (FY) 2018 estimate to complete (ETC) as well as FY2019-FY2022. In addition, scope and rough order of magnitude estimates continue to mature for FY2021-FY2022 Long Range Planning (LRP).
- Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130) returned construction office trailer to PacMobile. WESF Part B documents supporting closure of Hot Cell A through Hot Cell F were delivered to Ecology. The updated WESF Part B documents reflect changes as a result of Project W-130.
- Management of Cesium and Strontium Capsule (MCSC) Project (W-135) initiated the formal design review for the Cask Storage System Conceptual Design Report (CDR). NAC International provided a briefing of the conceptual design to the design review team. An entry into G-Cell was completed to support design activities and obtain needed design information including dimensions and manipulator range measurements.
- Annual revision of the Mixed Transuranic Waste and Mixed Low Level Waste (MLLW) submittal to RL to close M-091-03.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-WFMP-OB1-T1	Implement the requirement to provide a “full printed name” in CHPRC Waste & Fuels controlled Resource Conservation and Recovery Act of 1976 (RCRA) inspection work packages and procedures.	<ul style="list-style-type: none"> • Review W&FMP inspection procedures, checklists, and work packages/PMs, which implement RCRA inspection criteria for direction to use the full printed name. • Initiate modifications to necessary procedures, checklists, and work packages/PMs, which implement RCRA inspection criteria to include the full printed name. 	5/31/17 9/28/17	50%
17-EMS-WFMP-OB2-T1	Implement 40 CFR 265 regulatory requirements identified by the Compliance Matrix for T Plant and Central Waste Complex at the project level.	<ul style="list-style-type: none"> • Review the applicable 40 CFR 265 requirements to verify the implementing mechanisms and methods, and to identify compliance gaps. • Resolve identified gaps by initiating modifications to procedures into the PPS system. 	5/31/17 9/30/17	90%
17-EMS-WFMP-OB3-T1	Ensure W&FMP procedure inspection forms, checklists, and work packages, which implement RCRA inspection requirements, are capturing the RCRA inspection requirements and are appropriately located in the facility operating record.	<ul style="list-style-type: none"> • Review all inspection procedures, checklists, and work packages to identify, which are used to meet RCRA inspection requirements. • Initiate updates into PPS and/or JCS systems to ensure RCRA inspection requirements are met and documentation is appropriately placed into the facility operating record. 	5/31/17 9/30/17	50%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	3	
Total Recordable Injuries	0	2	
First Aid Cases	1	*25	<ul style="list-style-type: none"> 6/5/2017 – While walking between two forklifts parked in between 271-T and 211-T Pad, employee stepped off the asphalt and onto gravel. The gravel had a depression from forklift tires, which the employee stepped into. Employee did not notice the depression before stepping into it. Employee had eyes on the NCO at the 211-T Pad versus the edge of the pavement. The misstep resulted in lower back pain. The employee was transported to HPMC, evaluated, and released without restrictions. (24476) <p>*Three First Aid cases; PTS in support of RL-0013.</p>
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Performed/Completed:
 - The project continued detailed planning for FY2018 ETC as well as FY2019-FY2020. In addition, scope and estimates are in development for FY2021-FY2022 LRP, which includes activities necessary to support disposition of transuranic (TRU) and Mixed TRU (TRUM) (TRU/M) waste governed by the Tri-Party Agreement.
 - Support to Ecology RCRA inspection of Low Level Burial Ground (LLBG) Mixed Waste Disposal Trenches (MWT) 31-34 on May 02, 2017. The responses were provided to Ecology on June 5, 2017, including information requested as a result of the April 2017 Central Waste Complex (CWC) RCRA inspection.

13.02 Capsule Storage & Disposition

- o Performed/Completed:
 - Multiple entries into G-Cell for decontamination and radiological surveys, allowing a down post of the area in support of the W-135 walk-down.
 - Lighting upgrades in the WESF pool cell area.
 - Initiation of emergency lighting upgrades.
- o Surveillances/ Preventative Maintenance (PM):
 - 54 PM packages.

Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130):

- o Performed/Completed:
 - Return of construction office trailer to PacMobile.

- WESF Part B documents supporting closure of Hot Cell A through Hot Cell F were delivered to Ecology. The updated WESF Part B documents reflect changes as a result of Project W-130.

13.03 Canister Storage Building (CSB)

- o Performed/Completed:
 - Multi-Canister Overpack (MCO) Sampling Program Review.
 - CSB stack flow rate: Ecology and Washington State Department of Health (WDOH) issued a response to RL's General Notice of Potential Violation (GNOPV) response letter. For CSB, the action is to submit a license change. RL transmitted the draft license change to WDOH, EPA, and Ecology.
- o Surveillances/PMs:
 - 36 PM packages.

13.06 Transuranic (TRU) Repackaging

- o Performed/Completed:
 - M-091-52
 - Incorporated comments from management review of M-091-52 alternative evaluation.
 - M-091-03
 - Annual revision of the Mixed Transuranic Waste and Mixed Low-Level Waste submittal to RL.
- o Repackaging:
 - Three Super 7A shipments from CWC to Perma-Fix Northwest (PFNW) of M-091 Legacy TRUM waste, will contribute 141.4m³ toward M-091-47D when completed.

13.07 Waste Receiving and Processing (WRAP)

- o Performed/Completed:
 - Initiated Industrial Hygiene floor sampling for repairs of 2336W, 2404WB, and 2404WC.
 - Surveillances/PMs:
 - 137 surveillances.
 - 22 PM packages.

13.08 T Plant

- o Surveillances/PMs:
 - 440 surveillances.
 - 35 PM packages.

Sludge Receipt

- o Performed/Completed:
 - Sludge Receipt overview training to T Plant personnel.
 - Dock number 2 removal in preparation for replacement.

13.09 Central Waste Complex (CWC) and Low-level burial ground (LLBG)

- o Surveillances/PMs:
 - 289 surveillances.
 - 17 PM packages.
- o Shipments received:
 - Five Standard Large Boxes II from Plutonium Finishing Plant (PFP) to CWC in three shipments.
 - Seven Standard Waste Boxes (SWBs) from PFNW into CWC in three shipments.

13.12 Integrated Disposal Facility (IDF)

- o Performed/Completed:
 - A draft of the IDF Performance Assessment was submitted to the Office of River Protection for review.
 - Currently evaluating the requirements of a storage pad to support ILAW glass and other waste receipts.

- Initiated engineering development of a concept for the storage of ILAW glass at IDF, which will allow cooling and potentially a location to receive and treat failed melters.

13.15 TRU Disposition

- o Performed/Completed:
 - Issued TRU Project Assessment report.
 - Provided revised Central Characterization Project (CCP) Interface Document to CCP for approval.

13.16 Offsite Spent Nuclear Fuel Disposition

- o Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- o Surveillances/PMs:
 - 123 surveillances.

13.24 Management of Cesium and Strontium Capsules Project

- o Performed/Completed:
 - Cask Storage System Design – Initiated the formal design review for the Cask Storage System Conceptual Design Report (CDR). NAC International provided a briefing on the conceptual design to the design review team. In addition, an entry into G Cell was completed to support design activities and obtain needed design information, including dimensions and manipulator range measurements.
 - Comments from the formal design review of the WESF Modifications and Capsule Storage Area (CSA) conceptual design have been received and are being dispositioned.
 - Initiated internal CHPRC Project Review Board to provide an assessment of the W-135 Project in preparation of the planned CD-1 submittal to DOE-RL

Project Technical Services (PTS) Support

Engineering Services

- o Engineering Services continues to support the conceptual design review of Project W-135.

Project Delivery

- o WESF W-130 Stabilization
 - Performed/Completed:
 - Contractor demobilization.
- o CWC Roof Repairs
 - Performed/Completed:
 - Commenced work package development.
- o CSB Door Refurbishment
 - Subcontract awarded.
- o MO-029 Trailer at WSCF
 - Performed/Completed:
 - Mobilization.

MAJOR ISSUES

Issue:

Ecology has indicated that they may require the CSA 90 percent design package prior to issuing the permit for public comment.

Corrective Action:

Work with Ecology to provide 30 percent design (as previously agreed in the permitting plan).

Status:

DOE met with Ecology on June 22, 2017, and requested additional information regarding the need for the more detailed design.

Issue:

The Washington Department of Ecology issued findings in inspection reports for the LLBG Trenches 31-34 and CWC regarding major risk labeling. The findings direct RL and CHPRC to label the containers with the major risks of the dangerous waste contents. CHPRC uses the U.S. Department of Transportation (DOT) hazard class labeling system (which includes the use of radiological labels) to comply with the regulatory requirement.

Corrective Action:

Work with RL to obtain agreement from Ecology that CHPRC may use the DOT hazard class labeling system, as this complies with the regulatory requirement for a “system in use that performs the function in accordance with local, state, or federal regulations.”

Status:

CHPRC and RL met with Ecology inspectors regarding this item, and the parties agreed to elevate the issue to management for resolution. Awaiting direction from DOE-RL.

Issue:

Potential delayed approval of Master Documented Safety Analysis (MDSA) Revision 12. This delay will impact T Plant’s ability to complete Readiness Assessment activities in preparation for accelerated receipt of sludge.

Corrective Action:

Comments received from RL on April 2, 2017; CHPRC revised and re-submitted MDSA Revision 12 on May 18, 2017. CHPRC is working with RL to resolve additional comments. Readiness Assessment and MDSA implementation activities will be performed in parallel to attempt to mitigate schedule impacts.

Status:

Comments were significant. Comment resolution included re-analysis of numerous accidents contained in the MDSA. Approval and implementation are required prior to declaration of readiness at T Plant. Approval has been requested by July 18, 2017 in order to support the acceleration schedule provided to DOE in response to change order 327.

Issue:

Deteriorating Waste Containers: Retrieved and repackaged containers in storage are showing increased degradation, requiring additional mitigation activities.

Corrective Action:

Significant risk remains. TRU Disposition activities would prepare the contents of these containers in a configuration suitable for eventual disposal at the Waste Isolation Pilot Plant (WIPP). The configuration would also mitigate/eliminate the risk and additional cost for long-term management of these containers.

Status:

Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring; overpacking drums). Streamlining and consolidating existing container

management procedures. RL authorized the acceleration of FY2018 TRU commercial repackaging, allowing shipments to PFNW for repackaging to resume.

Issue:

Mission Support Alliance, LLC (MSA) Cross-Connection Control Program performed a Health Hazard Level Re-Evaluation following the guidance listed in WAC 246-290-490 and internal MSA Cross-Connection Control procedures. As a result, 225-B (WESF) Health Hazard Level was changed from high to severe, requiring service connections to have cross-connection installed.

Corrective Action:

The WAC requires corrective action to be accomplished “within 90 days of the purveyor notifying the consumer ...” or, “In accordance with an alternate schedule acceptable to the purveyor.” MSA has worked with affected facilities and RL to develop corrective actions that minimize impacts to ongoing cleanup milestones.

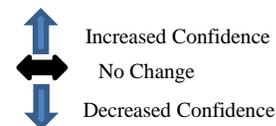
Status:

RL provided direction to MSA to remedy the majority of the issue with a modification at the source by MSA versus modifications at each facility. Description and preliminary schedule for WESF potable water facility modifications required, unless RL approves an alternate (no action) approach transmitted on July 6, 2016 (CHPRC-1602928). A meeting was held with RL on January 12, 2017, to discuss the contractual direction necessary to proceed. Awaiting RL direction for potable water system facility modifications.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.



Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
RL-0013/WBS-013																						
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of June .																						
Realized Risks (Risks that are currently impacting project cost/schedule)																						
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and requires additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day			Risk Event: In November 2011, degraded containers were discovered in CWC.																		
				<table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td> <td rowspan="3" style="text-align: center;">11/01/11</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Procuring stainless steel 85 gallon over packs for alternative storage of containers showing signs of degradation.</td> <td></td> <td>7/31/17</td> <td>25</td> </tr> </tbody> </table>	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	Ongoing	N/A	Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.	Ongoing	N/A	Process waste packages at a rate funded by RL.	Ongoing	N/A	Procuring stainless steel 85 gallon over packs for alternative storage of containers showing signs of degradation.		7/31/17	25
				Risk recovery action(s)	Risk Date	FC Date	%															
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Process waste packages at a rate funded by RL.	Ongoing	N/A																				
Procuring stainless steel 85 gallon over packs for alternative storage of containers showing signs of degradation.		7/31/17	25																			
Recovery Action Assessment: Project continued to perform container surveillances in the month of June to identify container and container cover abnormalities. Twenty-four containers in 2404WC had signs of exterior corrosion that were placed on the watch list and are being scheduled for overpack. The project completed overpack and plans to move storage box 75DMA16F3 into 2403WD. The remaining containers will continue to require surveillance and continued enhanced monitoring.																						

Risk Title	Unmitigated Risk Impacts	Assessment		Comments														
		Month	Trend															
RL-0013/WBS-013																		
WSD-143 Safety Classification of SSCs - MDSA Rev. 12	RL approval of the MDSA Revision 12 takes longer than the negotiated assumption planned in the baseline and/or the safety classification of Systems, Structures, and Components (SSCs) is more conservative than the safety analysis dictates, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$600K, 120 days			Risk Event: On Nov. 28, 2016, CHPRC submitted letter CHPRC-1604566A R1 -MDSA, Revision 12, the TSR Revision 12, the <i>T PLANT FHA</i> , and the SWOC FHA, Revision 6. While the baseline plan assumed that RL would review and approve this submittal within 120 calendar days (or by March 3, 2017), RL senior management had informally agreed to accelerate review/approval of this submittal within 60 days to facilitate moving all 100K sludge from the 105KW basin to T Plant by September 8, 2018. RL transmitted letter 17-NSD-0018_RL to CHPRC on March 30, 2017, providing a 35-page Review Comment Record (RCR), with comments that must be resolved prior to resubmitting the updated MDSA & TSR. The updated MDSA/TSR was submitted to RL on May 18, 2017.														
				<table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Obtain written comments from RL Nuclear Safety Division personnel against the submittal described above.</td> <td rowspan="3" style="text-align: center;">2/19/17</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Conduct interface meetings between RL and CHPRC senior management to ensure MDSA approval challenges are discussed and resolved, if possible, prior to any action that delays approval of the MDSA.</td> <td style="text-align: center;">As Needed</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.</td> <td style="text-align: center;">7/18/2017</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	Risk recovery action(s)	Risk Date	FC Date	%	Obtain written comments from RL Nuclear Safety Division personnel against the submittal described above.	2/19/17	Complete	100	Conduct interface meetings between RL and CHPRC senior management to ensure MDSA approval challenges are discussed and resolved, if possible, prior to any action that delays approval of the MDSA.	As Needed	N/A	Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.	7/18/2017	0
				Risk recovery action(s)	Risk Date	FC Date	%											
				Obtain written comments from RL Nuclear Safety Division personnel against the submittal described above.	2/19/17	Complete	100											
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Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.	7/18/2017	0																
Recovery Action Assessment: CHPRC received letter 17-NSD-0018_RL on March 30, 2017, providing 35 pages of comments associated with the MDSA/TSR Revision 12 submittal. CHPRC submitted the updated MDSA/TSR on May 18, 2017, and is currently meeting with RL to resolve comments. Once RL issues a Safety Evaluation Report, CHPRC will proceed with implementation activities. In June, CHPRC received significant comments, resulting in the re-analysis of numerous accidents contained in the MDSA. The project was informed that comment resolution would be 60 days extending the forecast completion date to July 18, 2017. Once CHPRC has dispositioned all RL comments and received confirmation that no changes to assumed safety classification is needed, this risk may be closed.																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																		
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																		
WSD-097: Major Equipment Failure - T-Plant	T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 96 days			Risk Trigger Metric: During planned facility operation activities, a suspected system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018).														
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and procure spare parts for T Plant crane.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Identify and procure spare parts for T Plant crane.	Ongoing	N/A								
Mitigation action(s)	FC Date	%																
Identify and procure spare parts for T Plant crane.	Ongoing	N/A																
Mitigation Assessment: No significant changes in the month of June . The project has put into place mitigating strategies (i.e., aggressive S&M activities) to help reduce this risk. The crane is currently operational, however, an adequate spare parts inventory is needed. The project has identified spare parts for the T Plant crane with input from the manufacturer and is in the process of procuring critical spares . The first order for mechanical parts will be placed next month. The project has completed the crane bridge drive bearing repairs discovered during preventive maintenance.																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments				
		Month	Trend					
RL-0013/WBS-013								
WSD-019: MLLW & TRU Treatment Impacts	Mixed low-level waste (MLLW) and TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$2.5 million, 0 day			Risk Trigger Metric: Will continue throughout contract (September 30, 2018).				
				Mitigation action(s)	FC Date	%		
				Establish multiple treatment contracts, or obtain additional capability, for the processing of MLLW and TRU, with terms extending to the end of the current CHPRC contract with RL (i.e. September 30, 2018).	Ongoing	N/A		
				Continue to work with RL to fund the processing of TRU/M waste at PEN at a rate that keeps them viable (i.e. keeps the doors open).	Ongoing	N/A		
				Evaluate the benefit(s) associated with an increase to the PEN Pu possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUMP waste to be shipped to PEN for processing. This evaluation will take place in conjunction with the M-091-52 engineering study.	09/30/17	50		
				Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 Legacy TRUMP to PEN. The additional shipments would meet the objectives for the Parma-Fix minimum optimal processing volume as identified in the Optimization Study provided to RL in December 2016.	Complete	100		
				Mitigation Assessment: No changes in the month of June. 1) MLLW: Two contracts are in place for offsite commercial waste treatment, which provided sufficient capability/capacity to meet current MLLW treatment needs through the end of the CHPRC contract term. However, one of the contracts was recently restricted due to the closure of a Parma-Fix treatment facility in Tennessee (ME). Additional capability will now need to be obtained to meet all anticipated MLLW treatment needs. TRU/M: Only PEN has current capability to process TRU/M waste. This is due solely to the practical limitations imposed by the need to ship the TRU/M waste via road-closure; therefore, additional commercial providers cannot be obtained. 130 m ³ of Legacy M -91 TRUM waste was authorized by DOE at the start of FY2017, and has now been shipped and completed. The project has received authorization for additional shipments, allowing for the shipment of four oversized TRU waste packages from CWC to PFNW supporting PFNW's minimum optimal processing volumes, along with the projected PFP oversized TRU waste components that are forecasted to be shipped to PFNW this fiscal year.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)								
Lifecycle Risk Triggers (Risk could be realized at any point of the project)								
WSD-137: OPP: Planned Efficiencies	Funding profile for the contract period are achieved through efficiencies. Risk Handling Strategy: Exploit Probability: Likely (75% to 90%) Worst Case Impacts: \$55 million, 0 day			Risk Trigger Metric: Will continue throughout project lifecycle (September 30, 2018).				
				Opportunity action(s)	FC Date	%		
				Opportunity Assessment: No changes in the month of June. The project has realized efficiencies of approximately \$74.9 million to date. Future efficiencies are being offset due to discrete project overruns, increased regulatory scrutiny, maintenance lessons learned across the CHPRC DOE Complex, and heightened compliance postures. Also note that the EAC currently contains work identified as changed scope for which contract changes would be issued.				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0013/WBS-013													
WSD-140: As-Found-Unknown Conditions - T Plant	<p>Unknowns, as-found, or emergent conditions impact the operability of the T Plant facility.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$990K, 0 days</p>	●	↔	<p>Risk Trigger Metric: This risk has been triggered due to the current condition of 221-T Dock number 2.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Repairs to 221-T Dock number 2 in support of sludge receipt</td> <td>09/11/2017</td> <td>35</td> </tr> <tr> <td>Submittal of a BCR to break out the planning package planned for May.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: Deterioration of the steel decking and steel support structure for 221-T Dock number 2 has required that the dock be taken out of service. A new loading dock is necessary, as one of the Life Safety Code required emergency egress points and to support the receipt of sludge. This dock also provides storage areas for various gas bottles. Dock number 2 replacement has commenced and is scheduled to complete by September 30, 2017.</p>	Mitigation action(s)	FC Date	%	Repairs to 221-T Dock number 2 in support of sludge receipt	09/11/2017	35	Submittal of a BCR to break out the planning package planned for May.	Complete	100
Mitigation action(s)	FC Date	%											
Repairs to 221-T Dock number 2 in support of sludge receipt	09/11/2017	35											
Submittal of a BCR to break out the planning package planned for May.	Complete	100											
FY2017 Risk Triggers (Risk could be realized in FY2017)													
WSD-W135-15: Utilization of 2003 Pre-Conceptual Design	<p>A pre-conceptual design for the dry storage of the capsules was completed in July 2003. If this design cannot be utilized, it will be necessary to initiate and complete a new conceptual design, including a new analysis of alternatives.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$5,100K, 0 days</p>	●	↔	<p>Risk Trigger Metric: The 2003 pre-conceptual design for the dry storage of capsules cannot be utilized.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. The 2003 pre-conceptual design is based on design criteria that is over 13 years old. Design criteria that impacts the ability to utilize the 2003 pre-conceptual design include: location of the Dry Storage Facility, duration of the storage period, Safety Basis Requirements and Environmental Permitting. Continuing to have discussions with RL can clarify impacts of the Safety Basis Requirements and environmental permitting. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
WSD-W135-16: Content and Approval of Critical Decision Packages	<p>The content of the critical decision packages required by DOE O 413.3B are more extensive than anticipated and require an extensive RL review.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$2,000K, 0 days</p>	●	↔	<p>Risk Trigger Metric: The content and review/approval process for the critical decision packages is impacted by DOE O 413.3B.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. The pre-conceptual design of the project was based on DOE O 413.3A; the current version is DOE O 413.3B, change 2. New requirements will impact the content of the critical decision packages or impact the duration and extent of the RL review. Working closely with RL on the tailoring strategy to meet the DOE O 413.3B requirements. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved. No further mitigation actions are necessary at this time.</p>	Mitigation action(s)	FC Date	%	Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements	Complete	100			
Mitigation action(s)	FC Date	%											
Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements	Complete	100											
WSD-W135-17: Modifications to WESF	<p>The transfer of the capsules to dry storage will require modifications to the WESF.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$7,300K, 0 days</p>	●	↔	<p>Risk Trigger Metric: Modification to the WESF facility are required for transfer of capsules to dry storage.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. The approach incorporated into the pre-conceptual design for the transfer of the capsules, required minimal modifications to the WESF. New or updated requirements will require more extensive modifications to the WESF. Before submittal of CD-1, CHPRC will review 30 percent design from subcontractor, which will provide details of WESF modifications. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
Unassigned Risks (Pending ownership of identified risks/opportunities)													
No unassigned risks identified in the month of June .													

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	8.2	10.2	10.6	2.1	25.1%	(0.4)	-3.5%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$2.1M/+25.1%)

The current month schedule variance is primarily associated with acceleration of FY2018 work scope into FY2017 for Large Box Repackaging coupled with progress on IDF Performance Assessment supporting documents that were planned in a prior period.

CM Cost Performance (-\$0.4M/-3.5%)

The current month cost variance is within threshold.

Contract-to-Date (CTD)

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,164.7	1,164.9	1,090.3	0.2	0.0%	74.5	6.4%	1,346.1	1,273.5	72.6

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (\$+0.2M/0.0%)

The CTD schedule variance is within threshold.

CTD Cost Performance (+\$74.5M/+6.4%)

The contract-to-date favorable cost variance is due to the continued implementation of planned efficiencies.

Variance at Completion (+\$72.6M/+5.4%)

The Variance at Completion is associated with the continued implementation of planned efficiencies.

Contract Performance Report Formats are provided in Appendix A

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	112.1	94.3	17.8
Incremental Scope Pending Change Management	0.0	2.1	(2.1)
RL-0013 – Total	112.1	96.4	15.7

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

The FY2017 projected funding for Project Breakdown Structure (PBS) RL-0013 of \$112.1 million is based on RL funding guidance. The total fiscal year spend forecast (FYSF) of \$96.4 million was increased by approximately \$1 million from last month as a result of added labor resources, which were not fully accounted for in the previous month's forecast.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB annual update, implemented in September 2013, and subsequently approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one-year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-03K	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/17		6/30/17	On schedule
M-091-52	Submit change request with target dates for new/modified capabilities to process TRUM waste.	9/30/17		8/30/17	On schedule
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA.	3/31/18		3/29/18	On schedule
M-091-03L	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/18		6/30/18	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-RL-0011, Plutonium Finishing Plant Closure Project PBS-RL-0013, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and PFNW locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable DOT Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or TSD requirements.	Ongoing
J.12/C.2.3.6	PBS-RL-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	No WIPP shipments are planned within the contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review and Approve MDSA and Technical Safety Requirement (TSR) Rev. 12 (original submittal)	11/29/16 (A)	05/01/17
RL Review and Approve MDSA and Technical Safety Requirement (TSR) Rev. 12 (with RL comments incorporated)	05/18/17 (A)	07/18/17

Section D

Soil and Groundwater Remediation Project (RL-0030)



J. D. Rendall
Vice President and
Project Manager for
Soil and Groundwater
Remediation Project

M. A. Wright
Vice President for
Project Technical
Services

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. N. Jaraysi
Vice President for
Environmental Program
and Strategic Planning

PROJECT SUMMARY

Pump and Treat (P&T) Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Groundwater treatment and well drilling (including development) completed in the current month includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Tech-99 (pCi)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	35.3	297.5	2.6	26.4						
HX P&T	48.7	286.4	2.4	19.7						
KR-4 P&T	10.9	113.7	0.1	1.2						
KW P&T	13.3	28.0	2.5	5.4						
KX P&T	34.0	319.5	2.2	18.2						
200 West P&T	87.6	694.4	8.8	62.1	142	1311	.3x10 ¹²	1.73x10 ¹²	64.1	149.1
Combined	229.77	1739.6	18.6	132.9	142	1311	.3x10¹²	1.73x10¹²	64.1	149.1
FY2017 KPG	--	2200	--	160	--	1700	--	N/A	--	45

Well Drilling by Area	FY2017 Planned	Current Month	FY2017 Cumulative
100-KR-4	5	-	1
100-HR-3	6	-	-
200-UP-1	10	1	8
200-ZP-1	5	-	-
M-24 Milestone	5	-	-
300 Area	67	-	67
200-DV-1	5	3	5
Total Wells	103	4	81
Site Wide Boreholes	*4	-	-

*FY2017 planned site wide borehole total decreased from 34 to 4. The 200-DV-1 shallow soil characterization work is now planned for FY2018.

EMS Objectives and Target Status

Objective #	Target	Actions	Due Date	Status
17-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility	T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter.	Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility.	9/30/17	75%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	NA
Total Recordable Injuries	0	0	NA
First Aid Cases	4	42	<ul style="list-style-type: none"> • 6/6/2017 – While loading resin, employee was struck with suction instrument. The employee was evaluated at HPMC. (24478) • 6/7/2017 – Employee noticed a small cut on finger while cleaning conveyors at the 200 West P&T. The employee was wearing gloves and no holes were present. The employee was taken to HPMC for evaluation. (24484) • 6/8/2017 – During removal of a spool, employee bumped right elbow on a piece of support angle iron. Employee was taken to HPMC for evaluation after noticing blood on their coveralls. (24485) • 6/19/2017 – Employee received a metal sliver while wiping a drill pin. The employee was taken to HPMC for evaluation. (24497) <p>*6 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	0	NA

KEY ACCOMPLISHMENTS

RL-0030 Accomplishments

RL-0030.01 RL 30 Operations

Environmental Integration

- Released Sample Data Tracking version 3.2 and Hanford Environmental Information System (HEIS) version 3.19 on June 14, 2017. Key features include redesign of the groundwater process to support field electronic data gathering (FLEDG2) and the ability to bulk update the analysis on the field paperwork.

River Corridor

100-BC-5 Operable Unit (OU)

- Provided recommendation to RL on the path forward to incorporate two additional groundwater contaminants (trichloroethylene and chloroform) into the Remedial Investigation/Feasibility Study (RI/FS) on June 14, 2017.
- Met with RL and the Environmental Protection Agency (EPA) on June 20, 2017, to discuss preliminary EPA comments on Chapters 1-5 of the Draft A RI/FS. According to EPA, the remaining comments will be provided by July 31, 2017.
- Initiated disposition of the preliminary EPA comments received June 22, 2017, on the Draft A RI/FS, Chapters 1-5.

100-KR-4 OU

- Completed the cultural review process for the well realignment activities within the Traditional Cultural Property (TCP) boundary on June 12, 2017; initiated associated field activities.
- Completed drilling at one monitoring well location and initiated well construction activities at two monitoring well locations in support of fiscal year (FY) 2017 optimization.

100-NR-2 OU

- Submitted the draft white paper to revise the cleanup levels for riparian receptors along the shoreline (below the shelf) to RL for review on June 8, 2017. This white paper will be finalized in July 2017 and issued to Ecology and EPA.
- Submitted the draft 2016 Bioventing Annual Report to RL for review on May 30, 2017.

300-FF-5 OU

- Completed the well drilling and installation for the Stage B Uranium Sequestration injection.
- RL and EPA made a decision to defer the Stage B Uranium Sequestration injections for 12 months. Initiated project demobilization on May 31, 2017, per RL Contracting Officer (CO) direction. The project was demobilized and placed in a position to resume installation in FY2018.

Central Plateau**200-UP-1 OU**

- Completed construction of a second uranium extraction well (299-W19-123); continuing well construction of dual-purpose uranium well 299-W19-125.
- Completed drilling wells 699-30-70 and 699-27-68, the first two of four additional southeast chromium characterization wells.
- Delivered the Central Plateau Groundwater Model Package Report to RL on May 30, 2017. This submittal meets the first completion criteria of PM-30-1-17, Table 5, Activity 29 in FY2017 Plume Containment and Remediation Utilization Plan, SGW-59936, Revision 1.

200-BP-5/200-PO-1 OU

- Completed and transmitted the Draft A Removal Action Work Plan for 200-BP-5 Operable Unit Groundwater Extraction to RL on May 25, 2017.
- Transmitted the Revision 0 Sampling and Analysis Plan for the 200-BP-5 Groundwater Operable Unit to RL on June 7, 2017.

200-EA-1 OU

- Received the signed M-15-17-02 change control form on June 19, 2017, extending Milestone M-015-92A for submitting the 200-EA-1 OU RI/FS work plan to July 31, 2018.
- Submitted Work Plan Chapters 1, 2, and Appendix B for RL and Ecology informal review on June 8, 2017.
- Initiated comment resolution and document updates based on RL and Ecology informal comments received on Work Plan Chapters 1 and 2, and Appendices B (plate map) and C (Risk Characterization Methods and Parameters) on June 19, 2017.

200-DV-1 OU

- Completed drilling borehole C9497 (216-B-42 Trench) on June 22, 2017, reaching a total depth of 274 feet below ground surface (bgs). Geophysical logging has been completed and sample intervals have been selected.
- Completed installation of the shallow casing at boreholes C9513 (216-S-13), C9503 (216-T-7 Tile Field) and C9555 (216-T-3 Reverse Well).
- Completed the drilling of the last three of five monitoring wells needed for the Uranium Reactive Gas Sequestration Treatability Test site.

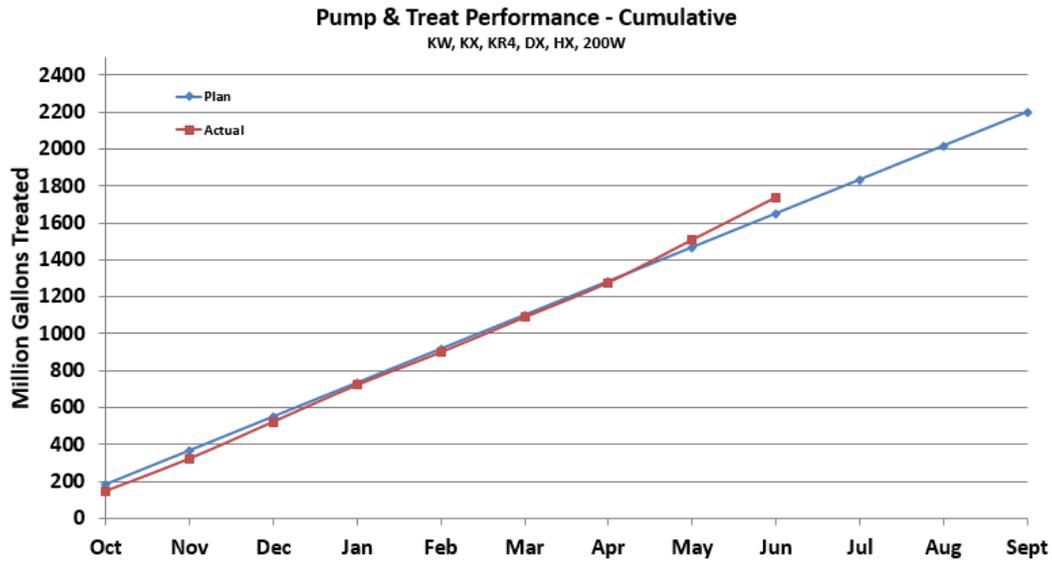
Groundwater P&T Facilities**200 West P&T**

- Operated the 200 West P&T at an average of 2,028 gallons per minute (gpm).
- Completed installation of new 6-inch line from the injection transfer building (ITB)-2 to the main 10-inch line supplying the injection manifold building (IMB).
- Completed excavation of cross-site transfer line spill site and obtained samples. Awaiting sample results.

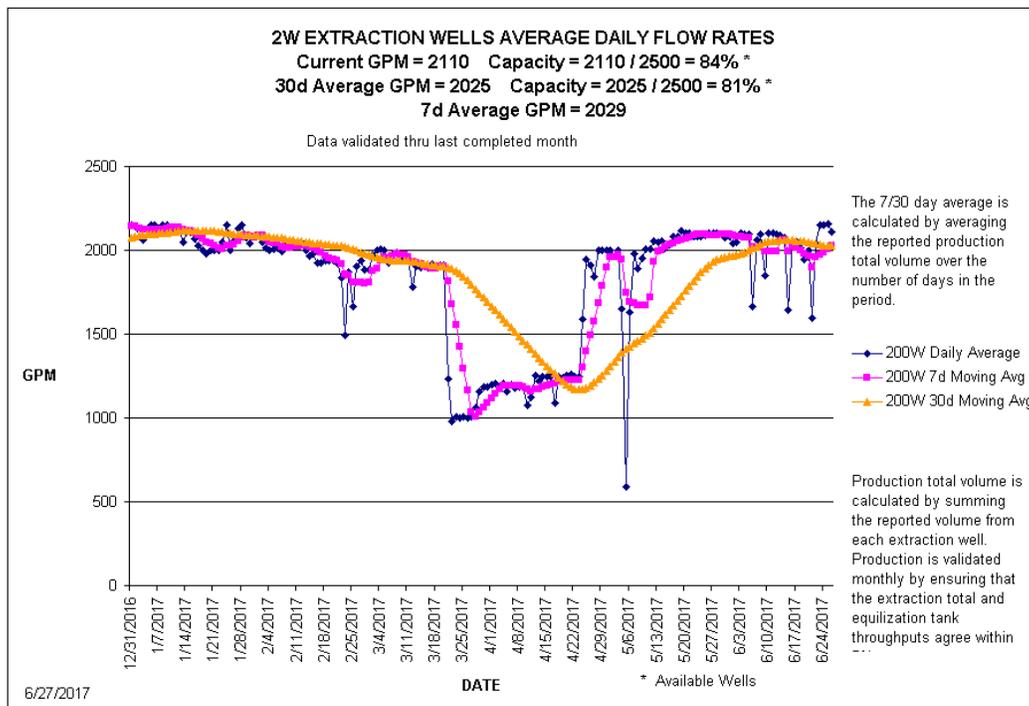
100 Area P&Ts

- Operated the DX P&T at 817 gpm, above the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 252 gpm, below the facility capacity of 330 gpm.
- Operated the KW P&T at 308 gpm, below the facility capacity of 330 gpm. Completed work activities to return KW P&T to full capacity.
- Operated the KX P&T at 787 gpm, below the facility capacity of 900 gpm. Completed installation of new feed pump PF-X3F at the KX P&T
- Operated the HX P&T at maximum extraction well capacity. The monthly average is at 1127 gpm.

FY2017 P&T Operations



200 West P&T



Project Technical Services (PTS) Accomplishments

- **Engineering Services**
 - o Verified electrical safety requirements for handling high-density polyethylene pipe sections using mobile equipment near overhead power lines.
- **Training and Procedures**
 - o Developed a project overview presentation for new driller contracts at Soil and Groundwater Remediation Project (S&GRP).
- **Operations Program**
 - o Performed annual lockout/tagout review for 200W Pump and Treat.
- **Emergency Preparedness**
 - o Conducted 200 West Pump and Treat Drill (SGRP-ODF-053117).
- **Project Delivery**
 - o Continued 200 Area well manifold and electrical rack fabrications.
 - o Road crossing excavation underway.

MAJOR ISSUES

Issue:

Experiencing regulatory agency delays in the approval of decision documents, including:

- 200-BP-5 remedial investigation (RI)/200-PO-1 RI addendum delayed due to Ecology review.
- 200-IS-1 RI/feasibility study (FS) work plan delayed due to formal dispute.
- 100-BC-5 RI/FS and proposed plan (PP) delayed due to EPA review.

Corrective Action:

Maintain visibility on these delays to senior management. RL/CHPRC to continue working with the regulatory agencies to facilitate completion of these documents. Submit notice of change letters to RL as contract activities are impacted.

Status:

Delays in completion of the decision documents are reported weekly to RL management and monthly to RL, EPA, and Ecology senior management. Specific document status includes:

- 200-BP-5/200-PO-1 RI: Ecology suspended review of the 200-BP-5 RI report and the 200-PO-1 RI report addendum on October 23, 2015, (15-NWP-189), pending resolution of the Central Plateau modeling approach. The modeling approach was resolved based on Ecology's letter (16-NWP-220), dated December 28, 2016. RL sent a letter to Ecology (17-AMRP-0114) on March 20, 2017, requesting comments be provided within 45 days in accordance with the Tri-Party Agreement. Ecology stated during the project manager's meeting that comments would be provided by July 31, 2017. No change from previous month.
- 200-IS-1 RI/FS Work Plan: Ecology has stopped review of change package C-13-01 due to disagreement regarding treatment, storage, and disposal (TSD) determinations and associated criteria. On October 20, 2016, RL provided the updated change package C-13-01 and four other change packages to better align the waste sites within the 200-IS-1 OU and several other OUs, to Ecology for review/approval. This topic was discussed during the January 4, 2017, Senior Executive Council meeting; RL and Ecology attorneys continue working to reach an agreement with an anticipated resolution date of June 30, 2017. Dispute resolution was formally extended to June 30, 2017, via Change Control Form M-15-13-02.

During June 2017, the project team coordinated with RL and Ecology regarding the dispute and the end-of-month due date. RL and Ecology reached an agreement on the TSD decision process and updated the change control form C-13-01 accordingly. CHPRC provided the updated change control forms June 22, 2017, based on these agreements. RL and Ecology are reviewing the change control forms, with the expectation that they will be signed by June 30, 2017.

- 100-BC-5 RI/FS and PP: EPA comments on the Draft A RI/FS and PP were due January 31, 2017. Preliminary EPA comments on the RI/FS (Chapters 1-5) were provided on June 20, 2017, with the remainder of the comments expected by July 31, 2017.

Issue:

Completion of Cultural Resource Reviews (CRRs) are delayed due to 1) significant snow accumulations that delayed the archeological field surveys or 2) issuance of the memorandum of agreement with the tribes. The impacted CRRs include:

Snow impacted:

- 100-HR-3 wells/conveyance lines delayed since December 14, 2016. Archeological surveys completed February 28, 2017.
- 200-UP-1 monitoring well delayed since December 20, 2016. Archeological survey completed on March 2, 2017.

Traditional Cultural Property/Memorandum of Agreement (MOA) impacted:

- 100-KR-4 well conveyance lines.
- 100-HR-3 well conveyance lines.

Corrective Action:

Conduct the archeological field survey as soon as snow conditions allow and then expedite actions to prepare draft CRRs. Closely monitor and assist Mission Support Alliance, LLC (MSA) progress on completion of the CRRs.

Status:

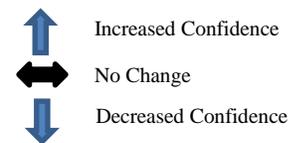
- CRR for 100-HR-3 wells/conveyance lines completed June 22, 2017. (Issue closed)
- CRR for 200-UP-1 monitoring well completed June 7, 2017. (Issue closed)
- CRR/MOA for 100-KR-4 well realignment completed on June 6, 2017. (Issue closed)
- First workshop for the 100-HR-3 MOA was held with the Yakama Nation on June 18, 2017.

Provided the scope impacts to PM-30-1-17 “Maximize plume containment and remediation utilization” to RL on June 7, 2017. Based upon feedback from RL, initiated revision to the FY2017 Plume Containment and Remediation Utilization Plan, SGW-59936, to incorporate the scope changes.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.



Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0030/WBS-030										
Explanation of major changes to the project monthly spotlight chart:										
No major changes to the risk spotlight chart in the month of June .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce long-term groundwater monitoring cost. Risk Handling Strategy: Exploit Probability: Very Likely (>90%) Worst Case Impacts: \$500K, 0 day	●	↔	Opportunity Event: The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise the groundwater monitoring SAPs over the next two years. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th style="text-align: center;">Opportunity action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Obtain Agency approval of the revised SAPs.</td> <td style="text-align: center;">TBD</td> <td style="text-align: center;">97</td> </tr> </tbody> </table> Note: 34 of the planned 35 SAP revisions have been completed (97%). Opportunity Assessment: Nine of the 10 CERCLA groundwater monitoring SAPs are complete. A path forward to complete the 200-PO-1 SAP will be developed with RL and Ecology based on document priorities. The forecast (FC) date will then be updated to reflect the new completion date based on the path forward. Once this SAP is complete, this opportunity will be closed. All 25 RCRA monitoring plans have been revised in accordance with the <i>SAP Optimization Plan to Revise the Groundwater Sampling Plan</i> . No further action required.	Opportunity action(s)	FC Date	%	Obtain Agency approval of the revised SAPs.	TBD	97
Opportunity action(s)	FC Date	%								
Obtain Agency approval of the revised SAPs.	TBD	97								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of June .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
No high risks identified in the month of June .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of June .										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	16.8	12.6	13.1	(4.2)	-25.0%	(0.5)	-3.6%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$4.2M/-25.0%)

The negative schedule variance resulted from the following:

- Delay of the 100-NR-2 Barrier maintenance and expansion activities, which were scheduled to start in FY2016, but were deferred due to funding limitations and pending resolution of cultural clearance items. Some cultural clearance and other planning activities are forecast to complete in FY2017, with fieldwork initiating in FY2018.
- Positive performance earned in prior periods (work acceleration) for 100-HR-3 optimization, 200-PO-1 NRDWL, and 300-FF-5 Stage B monitoring drilling campaigns, 100-HR-3 D&D, and 100-HR-3 well realignments is returning to zero by the end of FY2017.
- M-015-112 milestone dispute process slowed preparation of the 200-IS-1 RI/FS work plan. In the current month budget for preparation of the Draft A 200-IS-1 RI/FS and a proposed plan is scheduled. The project expects that the dispute will end by June 30, 2017.
- A greater number of up front 200-EA-1 Operable Unit waste site scoping workshops held with RL, CHPRC, and Ecology caused delays in decisional draft RI/FS WP preparation.
- One six-well 100-KR-4 drilling campaign planned for FY2017 was deferred to the out years because the wells were not required per the FY2017 P&T Containment Utilization Report.
- Drilling of a 200-ZP-1 monitoring well drilling campaign planned in FY2017 was deferred to FY2018 to align with work priorities.

CM Cost Performance (-\$0.5M/3.6%)

The variance is within reporting thresholds.

Contract-to-Date (\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,395.8	1,360.7	1,326.1	-35.0	-2.5%	34.6	2.5%	1,562.6	1,519.5	43.1

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$35.0M/-2.5%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$34.6M/+2.5%)

The variance is within reporting thresholds.

Variance at Completion (+\$43.1M/+2.8%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	126.6	112.3	14.2
Incremental Scope Pending Change Management	0.0	8.5	(8.5)
RL-0030 –Total	126.6	120.9	5.7

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

The FY2017 revised budget guidance received from RL reflects expected funding of \$126.6 million for project breakdown structure (PBS) RL-0030. The fiscal-year spending forecast (FYSF) of \$120.9 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved baseline change requests (BCR) define CHPRC planning with respect to Tri-Party Agreement milestones. A tentative agreement for Tri-Party Agreement milestone series M-015, M-016, M-037, M-085, and M-094 was signed on October 26, 2015, and the final approval package was signed on May 25, 2016. The following table is a one-year look ahead of PBS RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Completed Milestones					
M-024-58J	Initiate Discussions of Well Commitments	6/1/17	5/22/17		Complete per 17-AMRP-0175
M-024-68-T01	Conclude Discussions of Well Commitments	8/1/17	6/20/17		Complete per 17-AMRP-0193
Milestones in Dispute					
M-015-112	Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	2/28/14		TBD	Dispute resolution extended to June 30, 2017.
Milestones on Schedule or at Risk					
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	7/31/18		7/4/18	Tri-Party Agreement CN was signed on 6/19/2017 extending the due date to 7/31/18.
M-024-58K	Initiate Discussions of Well Commitments	6/1/18		6/1/18	On schedule
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	6/30/18		6/22/18	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review of Draft 200-WA-1 Waste Control Plan	6/28/17	7/20/17
RL Review of Decisional Draft 100-HR-3 RD/RAWP	8/11/17	9/9/17
RL Review of Decisional Draft Version A 200-ZP-1 RD/RAWP Rev I	8/30/17	9/29/17
RL Review of Decisional Draft 200-UP-1 RD/RAWP Rev I	8/30/17	9/29/17
Concurrent RL and CHRPC Review of Internal Draft SST WMA U Eng Eval Report	9/18/17	9/29/17

Section E
Nuclear Facility D&D, Remainder of Hanford
(RL-0040)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Team meetings were held to assign roles and responsibilities for the Plutonium Uranium Extraction Plant (PUREX) Tunnel Recovery. A cost and schedule was developed for Tunnel 1 interim actions, Tunnel 2 investigation, and response to the administrative order. The \$3 million not-to-exceed (NTE) was implemented into the performance measurement baseline (PMB) for June.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	4	15	6/6/2017 – Four employees experienced headache and upset stomach after noting a strong smell in the REDOX compressor room. All returned to work without restrictions. (24479-24482)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Central Plateau Surveillance and Maintenance (CPS&M) Facilities

- Completed Annual Staplex Air Sampler calculations.
- Provided support to structural engineering in performing the five year Roof/Structure Inspection of 202-A and Annex.

PUREX Tunnels

- A baseline change request (BCR) was implemented for the NTE of \$3 million for interim actions of the PUREX Tunnel 1 and response to the administrative order.
- Drafted Scope of Work (SOW) for temporary construction trailer demobilization from 618-10, modification, and eventual installation at PUREX.
- Drafted SOW for road grading and site preparation activities for temporary construction access and trailer at PUREX.
- Sand bags on the north end of PUREX Tunnel 1 cover were re-established after wind shifted the tunnel cover out from under the sand bags located on the north end.

PUREX Tank V-11-10-1

- Held the Hazard Review Board and finalized the work package for the PUREX Tank V-11-10-1 pumping activities.
- Successfully completed a leak test of the assembled pump manifold and piping.
- Assembled and inserted vertical piping and pump into the tank riser.
- Initiated tank pumping activities and completed pumping of one tote.

PUREX Stack Sampling System Replacement – Detailed Design

- The stack sampling system replacement final design package has been routed for CHPRC approval.

B Plant Pre-filter and HEPA Filter Change-out

- The B Plant pre-filter change out/water removal work package has been routed for approval.

Continued Progress on Canyon Stabilization Documents

- Transmittal of DOE/RL-2017-05 REDOX SAP and 2016-50 200 Area Tier 2 Miscellaneous Facilities Removal Action Work Plan (RAWP) Draft A to RL on June 7, 2017.
- Transmittal of Decisional Draft of REDOX RAWP DOE/RL-2017-06 to RL on June 15, 2017.

REDOX Risk Mitigation

- Commenced tagging of process and support equipment in the REDOX Silo for later reference in characterization and mitigation field activity.
- 85 percent complete on approval of Silo Legacy Waste Removal work package.

REDOX Roof

- REDOX Roof Progress
 - Completed removal of roof liner.
 - Completed 99 percent removal of flashing, ballast and insulation materials. Working on approval for as-left condition.
 - Completed 50 percent core drilling for pinning south wall.
 - Completed 90 percent core drilling column holes for steel erection.
 - Completed 80 percent installation of column anchors.
 - Completed 70 percent removal of additional roof interferences.
 - Commenced steel erection on roof proper.

MAJOR ISSUES

Issue:

As a result of the PUREX Tunnel 1 collapse, CHPRC received a notification on May 09, 2017, from the Department of Ecology of an administrative order, which CHPRC must comply. As part of the administrative order, there are the following corrective actions

Corrective Action:

- Identify and implement recovery actions associated with the collapsed PUREX Tunnel 1.
- By July 3, 2017, submit to Ecology the Nuclear Waste Program a structural integrity evaluation for both PUREX Storage Tunnels 1 and 2.

- By August 1, 2017, submit a draft report detailing the corrective actions to ensure the safe storage of the waste in the PUREX Storage Tunnels 1 and 2 to the Department of Ecology, Nuclear Waste Program for comment and approval.
- By October 2, 2017, submit a draft permit modification to the Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion Revision 8C to modify the permit.

Status:

In the month of June, the \$3 million NTE was implemented in the baseline for the initial Tunnel 1 interim actions and response to the administrative order.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0040/WBS-040												
Explanation of major changes to the project monthly stoplight chart:												
Realized Risks (Risks that are currently impacting project cost/schedule)												
WSR-202S-02: REDOX – Inclement Weather	Inclement weather, including moderate winds, low or high temperatures, heavy rain, or thunderstorms will impact the REDOX roof replacement. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$0K, 32 day			<p>Risk Event: For the duration of February through June, the REDOX roof construction activities were impacted by high wind and other weather events – four more weather delays were experienced in June.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Crews working overtime to support schedule recovery.</td> <td>Multiple</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: CHPRC has realized cost and schedule impacts resulting from inclement weather conditions through the months of February through June. Schedule and cost impacts continue to be documented and projected. CHPRC has and continues to perform all actions that may mitigate impacts, including things such as changing working hours to avoid heat delays. However, weather delays are difficult to forecast and mitigate. CHPRC plans to capture any scope and cost changes resulting from the weather delays in the TCoPD submittal for the corresponding change proposal (CP 040 311 1625).</p>	Risk recovery action(s)	Risk Date	FC Date	%	Crews working overtime to support schedule recovery.	Multiple	Ongoing	N/A
Risk recovery action(s)	Risk Date	FC Date	%									
Crews working overtime to support schedule recovery.	Multiple	Ongoing	N/A									

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																	
		Month	Trend																		
RL-0040/WBS-040																					
D4-042: Unexpected Site Conditions - D4	<p>Unexpected site conditions are encountered during D4 activities, resulting in schedule delays.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$0K, 130 day</p>	●	↓	<p>Risk Event: The B Plant ventilation system was shut down due to elevated differential pressure readings in the ACT002 filter bank. Upon initial investigation, it was determined that the pre-filters were saturated with water and there was standing water within the ACT001 filter bank. The result of this unexpected occurrence is that the pre-filters and HEPA filters in the ACT002 bank and presumably the pre-filters and the HEPA filters in the ACT001 filter bank need to be replaced prior to startup of the B Plant ventilation system. Unexpected radiological contamination identified within/outside the containment tent used to initiate the pre-filter change out has resulted in further delays to the filter replacement/system startup. Additional delays are being incurred due to delays from the HEPA filter manufacturer, including supplier questions on the quality assurance specifications, the procurement of additional parts needed to manufacture the filters, and early equipment failures.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.</td> <td rowspan="4" style="text-align: center;">Aug 2016</td> <td>07/11/2017</td> <td>75%</td> </tr> <tr> <td>Recovery actions were performed in April and May 2017 to fix contamination associated with ACT002 in and around the containment tent.</td> <td>Complete</td> <td>100%</td> </tr> <tr> <td>Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.</td> <td>Complete</td> <td>100%</td> </tr> <tr> <td>Execute pre-filter and HEPA filter change out.</td> <td>8/29/2017</td> <td>0%</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Engineering evaluation of the water intrusion has been completed. Condensate buildup was identified as the most likely source of water; however, this assumption cannot be confirmed. Evaluation of the extent of water intrusion within the two ACT filter banks and connecting ducting will be performed during the pre-filter removal activities scheduled to be performed in July 2017. HEPA filters will be replaced once the new filters are manufactured, tested at the off-site filter testing facility and shipped to Hanford; current ETA for the new HEPA filters is early August. Once the pre-filters and HEPA filters are replaced in both ACT filter banks the ventilation system will be restarted. The system will be monitored closely to identify any increases in differential pressure and/or elevated radiation levels that would be leading indicators that water is accumulating in the system again. Buildup of condensate after filter replacement could result in further shutdown of the system; however, it would most likely impact the pre-filters rather than the HEPA filters if differential pressure fluctuations are identified early. Pre-filters are low-cost and are changed out more frequently than the high cost HEPA filters.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.	Aug 2016	07/11/2017	75%	Recovery actions were performed in April and May 2017 to fix contamination associated with ACT002 in and around the containment tent.	Complete	100%	Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.	Complete	100%	Execute pre-filter and HEPA filter change out.	8/29/2017	0%
Risk recovery action(s)	Risk Date	FC Date	%																		
Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.	Aug 2016	07/11/2017	75%																		
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Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.		Complete	100%																		
Execute pre-filter and HEPA filter change out.		8/29/2017	0%																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																					
No critical risks identified in the month of June.																					
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0040/WBS-040										
D4-064: Aging Building Systems/Components	<p>Problems with aging building systems/components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/outages, resulting in cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$2 million, 0 day</p>	●	↔	<p>Risk Event: During routine surveillance activities, unforeseen events cause systems to be compromised. This risk is a lifecycle risk and will continue through the CHPRC contract period (September 30, 2018). This risk was realized in March due to increased future maintenance costs; however, a BCR was implemented to utilize MR, and the risk has since been recovered from.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Mitigation Action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> <p>Recovery Assessment: A pre-conceptual design has been provided to RL with an estimate for a like replacement of the entire PUREX stack sample system. CHPRC was provided a Not to Exceed (NTE) to complete a detailed design package for the system and to start demolition and installation activities; however, it is expected the NTE amount will be expended early on during construction. The detailed design package for the replacement system was accepted in May 2017; stamped/signed copies of the package were received in early June. Construction planning will continue throughout the remainder of FY2017 with intent to award the construction contract for installation at the start of FY2018.</p>	Mitigation Action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation Action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
Unsigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of June.										

PROJECT BASELINE PERFORMANCE Current Month (\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	4.0	4.0	4.0	0.0	0.9%	0.0	1.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (+\$0.0M/+0.9%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.0M/+1.1%)

The cost variance is within reporting thresholds.

Contract-To-Date (\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	444.5	439.1	410.1	(5.4)	-1.2%	29.1	6.6%	485.9	463.7	22.2

Numbers are rounded to the nearest \$0.1 million

Cost to date (CTD) Schedule Performance: (-\$5.4M/-1.2%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$29.1M/+6.6%)

The favorable cost variance is due to prior year activity, including:

- The majority of the CTD cost variance is from legacy work dating back to the American Recovery and Reinvestment Act (ARRA) time period.
- The remaining CTD favorable cost variance base-funded work is due to efficiencies for Surveillance and Maintenance and D4 activities as a result of utilization of existing site equipment and fewer resources, and Program Management utilizing fewer resources.

Variance at Completion (+\$22.2M/+4.6%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 040/RL-0040 Nuclear Facility D&D	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	38.9	29.4	9.4
Incremental Scope Pending Change Management	0.0	4.2	(4.2)
RL-0040 – Total	38.9	33.6	5.2

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2017 projected funding for PBS RL-0040 is \$38.9 million. The incremental scope pending includes the remaining scope for REDOX roof replacement; silo cleanout of levels 1-3; the north sample gallery cleanout; and balance of the demolition of the four B Plant ancillary buildings and REDOX steam lines demobilization.

The EAC increased due to implementation of the scope for the PUREX Tunnel 1 interim actions and response to the administrative order.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved baseline change requests (BCR) define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one-year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-250b	Submit to Ecology a three-year rolling prioritized schedule to implement waste site removal actions.	3/31/2017	3/30/2017 (A)		Complete
M-085-80A	Submit to Ecology secondary document, a data quality objective (DQO) report to access structural integrity of PUREX storage tunnels 1 and 2.	9/30/2017		8/03/2017	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review of 202S Demo Prep / D&D / Annex Action Memo	11/21/16 (A)	09/15/17
RL Review of 221B Demo Prep & Stabilization of Legacy Vent System Action Memo	09/18/18	10/17/18
RL Review of 202A Demo Prep / Annex / Vent Mods Action Memo	10/09/17	11/06/17

Section F

Nuclear Facility D&D, River Corridor (RL-0041)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

T. L. Hobbes
Vice President for 618-10 Burial Ground
and Environmental Restoration
Disposal Facility

L. M. Douglas
(Acting) Vice President
for 324 Building
Disposition Project

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Truthful Cost or Pricing Data (TCOPD) deliverables for change order definitization of River Corridor Closure Contract (RCCC) scope were submitted in the month of June. The project continued the following progress: 100K Waste Site remediation; 105KW Fuel Storage Basin deactivation and demolition long-range planning; 618-10 Burial Ground and 316-4 Waste Site remediation; 300-296 design for the 324 Building structural modifications and mockup; and equipment procurements, floor saw testing, and airlock entries for debris cleanout.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-KBOPR-OB1-T1	Increase compliance at KBOPR Project.	Develop compliance matrices for 100K CERCLA documents.	9/30/17	100%
17-EMS-KBOPR-OB2-T1	Universal Waste and Recycling Compliance and Spill Prevention.	Monitor and evaluate universal waste.	9/30/17	72%
17-EMS-KBOPR-OB3-T1	Reduce Waste	Reduce plastic water bottle use at project.	9/30/17	99%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	*1	*Recordable incident 24238 on November 17, 2016, was recorded under PBS RL-0013; however, the incident occurred at ERDF, which is part of PBS RL-0041.
First Aid Cases	5	28	<ul style="list-style-type: none"> 6/1/2017 – Employee was participating in a practical exercise when he was exposed to grenade smoke by ongoing security exercises, which irritated both his eyes. Employee self-treated by rinsing both eyes, but was instructed to report the incident. He was taken to HPMC for evaluation, released without restriction, and instructed to return if conditions worsened. (24474) 6/14/2017 – Employee was stung by a bee while working outdoors and immediately reported it to the fieldwork supervisor. The employee was taken to medical for evaluation, released to work without restriction, and was instructed to follow up if symptoms do not resolve on their own. (24493) 6/14/2017 – Employee experienced discomfort in his right hand while cleaning facility after applying GermX hand sanitizer and donning nitrile gloves. The employee removed the glove, notified a supervisor, and safely drove to HPMC for evaluation. The employee was released to work with temporary restrictions, but was able to accommodate all restrictions until re-evaluation appointment. No time lost. (24494)

			<ul style="list-style-type: none"> 6/22/2017 – Employee was walking outside when an insect flew into his face and caused a stinging sensation and discomfort under the employee’s eye. The employee was given a cold pack and released to work without restriction. (24506) 6/27/17 – Employee received an abrasion on the right shoulder while performing surveys on a flatbed trailer; when the ladder the employee was climbing on, broke. Employee was taken to HPMC for evaluation, received wound care treatment, and was released to work without restriction. (24510)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0041 Accomplishments

- 100K Closure Project
 - 100K AA Waste Site Area Remediation:
 - Completed 70 percent of the excavation of waste site 1607-K1. Stopped and placed the site in a safe configuration, as 618-10 and PFP need all available ERDF cans and truck drivers through the remainder of FY2018.
 - 100K AB Waste Site Area Remediation:
 - EPA approved Waste Site Reclassification Forms for closure of waste sites 100-K-101, 25, 27, 35, 79:3, 79:4, 98 120-KE-1, 2, 3, 4, 5, 6, 9 in the 183.1 KE Head House excavation site. Started backfill of the site.
 - 100K AF Waste Site Area Remediation:
 - Completed excavation of waste site 100-K-103 and 100-K-79:9. EPA approved Verification Sampling Instruction (VSI).
 - Waste Site Reclassification Form provided to EPA for approval to reject waste site 100-K-100, as no contaminated material has been discovered at the site.
 - 100K AH Waste Site Area Remediation:
 - Completed post-excavation civil survey for waste site 1607-K5. The VSI was developed and approved.
 - 100K Asbestos Site Cleanup:
 - Completed removal of asbestos-containing material on waste sites 100-K-115, 100-K-116, 100-K-124, 100-K-120, 100-K-125, 100-K-126, 100-K-127, 100-K-128, 100-K-129 and 100-K-131. Removal of material from sites 100-K-120 and 100-K-123 remains. Submitted Waste Site Reclassification Form to EPA for 100-K-116 for review and approval.
 - K West Basin Deactivation & Demolition:
 - Awarded fabrication contracts for garnet filter media removal system equipment to Columbia Engineering & Environmental Services and Sludge Transport & Storage Containers (STSCs) to American Boiler Works.
 - Initiated conceptual design of sand filter media removal system.
 - K West Basin below-water debris characterization activities have started. A gamma ray spectrometer (gamma camera) has been procured and gamma camera testing begun in the east and center bays of the K West Basin.
 - Prepared draft long-range plan (LRP) to deactivate, demolish, and remediate the waste site underneath K West Basin.
- Remaining Closure Operations (RCO):
 - Resource Conservation and Recovery Act of 1976 (RCRA) Permit Closure.

- Submitted 1324N/NA Class 1 prime to Ecology for their informal review.
 - Proposed Class 2 modifications to clean-close 1301-N and 1325-N Liquid Waste Disposal Facilities approved by Ecology. Sixty-day public comment period started June 5, 2017 and runs through August 4, 2017.
 - Requested 1706-KE Class 1 prime permit modification documents from Ecology to remove 1706-KE from Hanford RCRA permit.
- o MO226 Demolition
 - Completed draft Facility Site Closure Form and submitted to RL for review.
- o Revegetation
 - Continued opportunistic collection of shrub seeds at various Hanford locations to support FY2018-FY2019 revegetation activities.
- 618-10 Burial Ground:
 - o 29,571 tons of contaminated soil sent to ERDF from 618-10 Mass Excavation.
 - o Crews continued consolidating materials for disposition or disposal as part of project demobilization.
 - o Project Technical Services (PTS) completed a report from the February 618-10 Burial Ground emergency preparedness drill and submitted to IDMS.
- 316-4 Waste Site:
 - o Completed excavation of contaminated soil on May 23, 2017. Crews removed 302,859 tons from the waste site, including 20,163 tons of contaminated soil.
 - o Received backfill concurrence from RL/EPA and began backfill activities on June 19, 2017.
- 324 Building Min Safe:
 - o Completed all five Vital Safety System walk-downs.
 - o Received and initiated installation of new stack CAM software.
 - o Repaired the 901 steam coil leak.
 - o Issued Routine Work Package for Connex Clean Out.
 - o Completed Annual Filter DP indicator testing PM for Zone I and Zone II filter rooms and Filters 6, 7, 9, and 10.
 - o Completed eight routine monthly PMs.
 - o Performed the 90-day stack rad monitor testing.
- 300-296 Soil Remediation Project:
 - o A 300-296 project update and tour of the 324 Building was conducted with representatives of the Washington Department of Ecology on May 23, 2017.
 - o On May 24, 2017, a Joint Evaluation Team Meeting determined that a Checklist Readiness Assessment, with CHPRC serving as the Startup Authorization Authority, will be used to approve the start of soil removal operations.
 - o The 300-296 Waste Site Remediation Integrated Project Team (IPT) meeting was conducted on June 13, 2017, during which the project team presented a proposed technical basis for defining the end point for soil excavation activities.
 - o The annual update of the 324 Building Safety Basis, incorporating the Soil Spill Accident Comparison to a Waste Spill and downgrading the Radiochemical Engineering Cells (REC) structure, was formally submitted on June 6, 2017, to support RL in issuing the Safety Evaluation Report (SER).
 - o The project's next annual update and Soil Removal Addendum, required to support soil removal operations, was issued on June 22, 2017, for internal CHPRC review to support submission to RL in August.

- The contract to perform modifications to the mockup structure, to support soil removal equipment installations later this year, was awarded on May 25, 2017.
- The Request for Proposal (RFP) was issued on June 8, 2017, for the 324 Building prerequisite work (Interference Removal, Cell Sealing, Core Drilling, and Structural Modifications).
- The Site Labor Board meeting was completed on June 7, 2017, and a kickoff meeting was conducted on June 8, 2017, with the mockup modification contractor to prepare the mockup for equipment installations.
- A conference for potential bidders for the prerequisite work in the 324 Building was conducted on June 20, 2017. Twenty-three representatives from nine companies participated in the event, which included a project and scope overview presentation, a tour of the mockup, and a backside tour of the 324 Building. Proposals for this work are due July 13, 2017.
- Fabrication of a Seal Breaker Alignment Test Apparatus (test rig) to simulate the D-Cell floor plug was initiated. This test rig includes alignment pins and threaded rods that will allow testing of the seal-breaker alignment techniques and support testing and validation of the performance of seal breaker jacking functionality.
- The Remote Excavation Arm (REA) has been verified to be functional and technician training is scheduled to be completed in July. The test floor at the Maintenance and Storage Facility (MASF) will be broken up using the REA to gain insights and capture lessons that can be applied during mockup training.
- A 324 Building REC airlock entry was completed on June 5, 2017, to perform dose reduction activities (cleaning a hot spot near the entrance), partial decontamination of the airlock door, and to remove waste. Sixteen bags of plastic waste were removed from the airlock during this entry, marking the first debris removed from the airlock in support of the project.
- Additional airlock entries were successfully made on June 14, 2017, to conduct surveys, downsize and package waste, and on June 22, 2017, to lower the telelevator, perform power washing/scrubbing of a targeted area of the floor to reduce dose and remove waste. To date, the cleanup and decontamination effort has resulted in a three-fold reduction in the Beta dose and a slight to moderate reduction in the gamma dose.
- Electrical investigation at the minus 10-foot elevation have been completed, are approximately 30 percent complete at the zero elevation, and all air gapping is complete in the 324 Building. These electrical and mechanical characterization activities will support interference removal activities and will assist in facilitating the project's accelerated schedule.
- The Craft Work Package for disposition of the REC Airlock Telelevator has been developed for removal activities scheduled later this year.
- PTS Support
 - Power was connected to the mockup on May 31, 2017.
 - All mockup infrastructure installation, upgrades, and modification activities have been successfully completed, and the habitability certification has been received.
 - Contractor mobilization for mockup modifications (core drilling, transfer pit, etc.), including submittals and training, is underway. Scaffolding is being staged to support the initiation of planned work activities.
- Environmental Restoration Disposal Facility:
 - Receipt of 37,355 tons by CHPRC for the fiscal month of June.
 - Receipt of 180,985 tons by CHPRC fiscal year to date (FYTD).
 - Surpassed 300,000 miles driven by transportation drivers.
 - Received and disposed of an average of 90 cans per day.

MAJOR ISSUES

No major issues to report on at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments											
		Month	Trend												
RL-0041/WBS-041															
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.															
Realized Risks (Risks that are currently impacting project cost/schedule)															
RCC-316-4-09: 316-4 Discovery of Unexpected Waste/Contamination	Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs and/or waste profile, and/or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$240K, 48 day			<p>Risk Event: On Tuesday, November 29, 2016, CHPRC discovered debris (wood, metal, etc.) in the 316-4 overburden removal, and then on Wednesday, November 30, 2016, radiological contaminated soil and contaminated debris (plastic and piping) was encountered that was buried in the top 6 feet of overburden at the 316-4 waste site. On Wednesday, January 4, 2017, and Tuesday, January 24, 2017, additional contamination was discovered. Contamination was discovered approximately 4 feet above the anticipated location on March 27, 2017.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Send backfill stockpile to ERDF.</td> <td rowspan="2">11/29/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Update TCoPD to align with found conditions.</td> <td>5/26/17</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The TCoPD for change proposal CP 041 304 1600 was submitted on May 26, 2017. The TCoPD captured schedule and cost changes that resulted from the contamination discoveries that occurred prior to March 2017. The excavation of the 316-4 Waste Site was completed on May 23, 2017 and backfill began on June 19, 2017. Due to the completion of the excavation, this risk is no longer a realized risk. However, with backfill work being conducted there is still a probability that this risk will be realized again. As such, it will be removed as a realized risk and will move under the High Risk Threat Value section stoplight report in July.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF.	11/29/16	Complete	100	Update TCoPD to align with found conditions.	5/26/17	100
Risk recovery action(s)	Risk Date	FC Date	%												
Send backfill stockpile to ERDF.	11/29/16	Complete	100												
Update TCoPD to align with found conditions.		5/26/17	100												
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)															
RCC-300-296-03: Mockup testing and qualification of remote equipment / process identifies major modification requirements.	Issues such as equipment interferences, equipment reliability, etc., arise during mockup or component testing, resulting in negative cost or schedule impacts during future production work. There is the potential for more frequent equipment repairs/full equipment change-outs than planned, which could result in cost and schedule impacts. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$86K, 80 days			<p>Risk Trigger Metric: Risk could be triggered through the conduct of component testing or testing/training performed at the mockup that produced inadequate or unexpected test results.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Perform Construction Acceptance Test at mockup facility – including REA System with HPU, cameras, and lighting and transfer mechanisms.</td> <td>11/30/17</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mockup will be used to validate equipment performance and to support establishing proficiency for personnel for installation, relocation, and operation of remote soil remediation equipment in the 324 Building. Remotely operated equipment (Remote Excavation Arm, transfer mechanism, cameras and lighting, and floor saw) could experience higher failure rates and/or performance issues from lack of personnel proficiency. Vendor contracts have</p>	Mitigation action(s)	FC Date	%	Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.	Complete	100	Perform Construction Acceptance Test at mockup facility – including REA System with HPU, cameras, and lighting and transfer mechanisms.	11/30/17	0		
Mitigation action(s)	FC Date	%													
Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.	Complete	100													
Perform Construction Acceptance Test at mockup facility – including REA System with HPU, cameras, and lighting and transfer mechanisms.	11/30/17	0													

				<p>been awarded for the REA, transfer mechanism, and cameras and lighting systems and equipment deliveries to the mockup are scheduled for December 2017/January 2018. Floor saw testing was completed in April, and the Functional Requirements Document and Performance Specifications will be completed in July. The vendor performing mockup modifications has been selected and will mobilize in early July to support equipment installations beginning in late CY2017.</p>						
RCC-300-296-11: Current REC cell seismic analysis is inadequate	<p>Regulatory agencies require different seismic analysis criteria than the UBC 1961 methodology that was originally used, resulting in additional design and more significant structural alterations to the 324 Building, which would negatively impact project cost and schedule</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$288K, 48 days</p>	● ↔	↔	<p>Risk Trigger Metric: This risk would be triggered at the same time it is realized, with regulatory agencies requiring different seismic analysis criteria than what was used in the original estimates.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The original design of the 324 Building is based on the 1961 Uniform Building Code (UBC). Facility structural modifications have been analyzed using the UBC 1961 methodology (Section 7.8, KUR-1782F-CALC-C001, and 324 Building REC Structural Stability Evaluation); as the most appropriate and cost effective approach given the overall intent to remediate the building following soil removal. The project conducts a Bi-Monthly update to DNFSB Field and Technical representatives and the most recent update was provided on June 29, 2017. The update includes the status of the project overall with specific updates on Nuclear Safety Documentation, Structural Design, and Readiness. The project issued a Request for Proposal (RFP) for 324 Building modifications (Interference Removal, Cell Sealing, Core Drilling, and Structural Modifications) on June 6, 2017. The RFP included a summary of the structural design requirements, which was amended with a final draft of the Functional Requirements Document and Performance Specification on June 19, 2017. Further, the project conducted a bidder's conference on June 20, with 23, 2017, representatives from nine companies considering proposals, which included a 324 Building tour to ensure a clear understanding of the scope of the project was provided. Proposals are due on July 13, 2017, with the award planned in August.</p>	Mitigation action(s)	FC Date	%	Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.	Ongoing	N/A								
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
RCC-618-10-07: Contamination Event at 618-10 Waste Site	<p>During fieldwork activities, a contamination event occurs that requires corrective actions, resulting in schedule and cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$1,288K, 64 days</p>	● ↔	↔	<p>Risk Trigger Metric: The risk could be triggered by high winds or operational upsets (i.e. spills or airborne release).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Enhanced radiological controls implemented on project.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. Much of the 618-10 work is performed in hazardous and radioactive environments. By its nature, the work can be dangerous. Although CHPRC procedures, safety programs, and training programs are designed to minimize the potential loss of control of hazardous/radioactive substances, such an occurrence could be deemed to be significant enough to warrant corrective actions outside the baseline (i.e. a prolonged work shutdown).</p>	Mitigation action(s)	FC Date	%	Enhanced radiological controls implemented on project.	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Enhanced radiological controls implemented on project.	Ongoing	N/A								
RCC-618-10-09: Discovery of Unexpected Waste/Contamination	<p>Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs or waste profile, or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Low (<10%) Worst Case Impacts: \$1,280K, 64 days</p>	● ↔	↔	<p>Risk Trigger Metric: This risk has previously been realized as more drums than planned were discovered. This risk has the potential to occur again during mass excavation if additional waste/contamination is discovered.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Closely managing waste inventories and discoveries, and making adjustments as required.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. The estimate for the remediation of the 618-10 Waste Site included an assumed amount of additional drums still to be remediated. The project identified unexpected additional drums that were not planned or estimated. The project will continue to closely monitor and manage waste inventories and any new discoveries.</p>	Mitigation action(s)	FC Date	%	Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of June.										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	12.7	12.3	9.5	(0.5)	-3.7%	2.8	22.6%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.5M/-3.7%)

The current month schedule variance is within reporting thresholds.

CM Cost Performance (+\$2.8M/+22.6%)

The current month favorable cost variance is partially due to the 618-10 Burial Ground project management and support accounts that experienced significant underruns due to efficient use of resource sharing across the complex and reduced material usage (\$1.4 million). 300-296 Project contributed to the positive variance (\$440K); largely due to schedule recovery and schedule acceleration associated with REC Airlock cleanout while maintaining a constant crew.

Contract-to-Date

(\$M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	445.9	449.9	398.5	4.0	0.9%	51.4	11.4%	569.2	506.6	62.6

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$4.0M/+0.9%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$51.4M/+11.4%)

The favorable cost variance is primarily due to completing Confirmatory Sampling No Action (CSNA) waste sites early and under cost. In addition, less demolition was required for the KE Sedimentation Basin. This favorable cost variance was partially offset by the cost overruns in prior years for the utilities project. The 618-10 complex has also experienced favorable cost variances due to shared resources, lower drum processing costs than anticipated, and excavation efficiencies at the 316-4 waste site that reduced the total volume of soil to be removed, which resulted in significant progress with minimal cost.

Variance at Completion (+\$62.6M/+11.0%)

The Variance at Completion is primarily due to implementation of planned efficiencies.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	146.3	117.9	28.4
Incremental Scope Pending Change Management	0	5.1	(5.1)
RL-0041 - Total	146.3	123.0	23.3

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

FY2017 projected funding for PBS RL-0041 is \$146.3 million. The delta between the spending forecast and projected funding levels for FY2017 is partially due to work scope completing ahead of schedule, attrition and staffing ramp-downs, resource sharing amongst projects, and less material procurements at the 618-10 Burial Ground Complex. Additionally, less waste volumes by waste generators early in the fiscal year and not hiring as many teamsters as planned has resulted in an underspending at ERDF. Also, incorporating trends for cost underruns in Small Waste Site Surveillance and Maintenance, Interim Stabilization, KW Basin Characterization, as well as Sand and Garnet Filter Media Removal activities contributed to the decrease in the spending forecast. The change in 300 Area Projects spend forecast was minimal (\$-214K) due to miscellaneous offsets.

Critical Path Schedule:

Critical Path Analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) annual update, implemented in September 2013, and subsequently approved baseline change requests (BCR) define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one-year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Status/ Comment
M-016-00A	Complete all response actions for 100 Areas Except GW in M-016-00 and 100 K addressed in M-016-00C	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule
M-016-164	Complete 100-N Interim Response Actions & Close 100-N Ancillary Facilities Area of Contamination	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL and Regulator Review of Closeout Sampling Instructions for 316-4 Waste Site	5/18/17 (A)	5/24/17 (A)
RL/EPA Review & Approve Backfill Concurrence for 316-4 Waste Site	6/14/17 (A)	6/19/17 (A)
RL and Regulator Review of Closeout Sampling Instructions for 618-10 Burial Ground	6/19/17 (A)	8/2/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 316-4 Waste Site	10/17/17	11/30/17
RL/EPA Review & Approve Backfill Concurrence for 600-63 Waste Site	12/8/17	12/21/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 600-63 Waste Site	12/8/17	1/21/18
RL/EPA Review & Approve Backfill Concurrence for 618-10 Burial Ground	1/12/18	1/19/18
RL and Regulator Review of CVP and Waste Site Reclassification Form for 618-10 Burial Ground	3/6/18	4/19/18

Section G

Fast Flux Test Facility Closure (RL-0042)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Fast Flux Test Facility (FFTF) is being held in a low-cost surveillance and maintenance condition.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	0	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0042 Accomplishments

- Completed removal of the access hatch and the old P-16 pump and motor in preparation for the new P-16 pump install.
- Mobilized the construction contractor and started removal of the old P-16 pump motor base and cleaning and inspection of the borehole.
- Continued development of the construction work package for installing the new P-16 submersible pump.
- Received additional submittals from the 400 Area trailer installation contractor.
- Continued preparation of the installation work package for the new 400 Area trailer.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.2	0.2	0.3	(0.0)	-3.5%	(0.1)	-57.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-3.5%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (-\$0.1M/-57.1%)

The cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	23.7	23.7	19.6	(0.1)	-0.2%	4.1	17.2%	26.5	24.0	2.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-\$0.1M/-0.2%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$4.1M/+17.2%)

The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+\$2.5M/+9.3%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

RL-0042 FFTF Closure	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	3.9	2.0	1.8
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	3.9	2.0	1.8

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

FY2017 projected funding for project breakdown structure (PBS) RL-0042 is \$3.9 million. The spending forecast of \$2.0 million is in line with the FY2017 BAC of \$2.1 million.

Critical Path Schedule

Critical path analysis is not applicable to this project. The remaining contract scope is performance of interim surveillance and maintenance activities pending facility disposition.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS

None currently identified.

Appendix A

Contract Performance

Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

FORM APPROVED
OMB No. 0704-0188

DOLLARS IN Thousands of \$

1. CONTRACTOR		2. CONTRACT		3. PROGRAM			4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD)	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18			2017 / 06 / 25	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 5,584,248	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 194,897	d. TARGET PROFIT/FEE 241,315	e. TARGET PRICE 5,825,564	f. ESTIMATED PRICE 5,879,254	g. CONTRACT CEILING 5,825,564	h. ESTIMATED CONTRACT CEILING 5,879,254	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K		b. TITLE Prime Contract Compliance Manager	
a. BEST CASE 5,570,594						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 5,679,208									
c. MOST LIKELY 5,637,938		5,779,145		141,207					

8. PERFORMANCE DATA																
Control Account.PBS		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION			
ITEM (1)	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
RL-0011 Nuclear Mat Stab & Disp PFP	16	2,701	10,982	2,685	-8,281	980,120	941,892	1,035,896	-38,228	-94,004	0	0	0	980,454	1,074,658	-94,204
RL-0012 SNF Stabilization & Disp	7,209	5,924	3,789	-1,285	2,135	681,298	680,281	647,906	-1,017	32,375	0	0	0	740,588	708,156	32,432
RL-0013 Solid Waste Stab & Disp	8,169	10,222	10,578	2,053	-356	1,164,695	1,164,863	1,090,323	168	74,539	0	0	0	1,345,219	1,272,663	72,556
RL-0030 Soil & Water Rem-Grndwtr/Vadose	16,836	12,630	13,079	-4,206	-448	1,395,768	1,360,737	1,326,132	-35,031	34,605	0	0	0	1,562,153	1,519,046	43,107
RL-0040 Nuc Fac D&D - Remainder Hanfrd	3,979	4,016	3,972	37	44	444,547	439,138	410,061	-5,410	29,076	0	0	0	483,671	461,431	22,239
RL-0041 Nuc Fac D&D - RC Closure Proj	12,745	12,270	9,500	-475	2,770	445,899	449,896	398,457	3,998	51,439	0	0	0	562,808	500,258	62,550
RL-0042 Nuc Fac D&D - FTF Proj	205	198	311	-7	-113	23,716	23,663	19,586	-53	4,077	0	0	0	26,455	24,003	2,452
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														10,380	10,380	0
e. SUBTOTAL	49,159	47,961	52,210	-1,198	-4,249	5,136,043	5,060,471	4,928,361	-75,572	132,109	0	0	0	5,711,728	5,570,594	141,133
f. MANAGEMENT RESERVE														67,344		
g. TOTAL	49,159	47,961	52,210	-1,198	-4,249	5,136,043	5,060,471	4,928,361	-75,572	132,109	0	0	0	5,779,071		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										-75,572	132,109		5,779,071	5,570,594	208,477	

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$ OMB No. 0704-0188

FORM APPROVED

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
34 - Env Program & Strategic Plng	957	964	743	8	222	72,309	72,213	66,778	-96	5,436	0	0	0	82,843	78,747	4,096		
35 - Business Services	0	0	-6	0	6	472,524	472,524	448,791	0	23,733	0	0	0	472,524	455,791	16,733		
36 - Prime Contract & Proj Integr	172	172	159	0	13	6,402	6,402	3,722	0	2,680	0	0	0	8,414	6,138	2,276		
3B - PFP Closure Project	16	2,701	10,983	2,685	-8,282	892,861	854,633	956,205	-38,228	-101,572	0	0	0	893,195	987,957	-94,761		
3C - Waste & Fuels Management Project	8,141	10,194	10,552	2,053	-358	1,056,155	1,056,323	981,940	168	74,383	0	0	0	1,236,373	1,163,756	72,617		
3D - Soil & Groundwater Remediation	15,821	11,608	12,283	-4,213	-675	1,223,413	1,188,478	1,153,145	-34,935	35,333	0	0	0	1,378,525	1,333,500	45,024		
3G - K Basin Oper & Plateau Remediation Project	13,128	11,670	9,238	-1,458	2,432	1,315,157	1,314,561	1,236,465	-596	78,096	0	0	0	1,476,665	1,394,715	81,950		
3H - 618-10 and ERDF	7,138	6,706	4,753	-431	1,954	65,009	64,540	50,611	-470	13,929	0	0	0	100,012	88,781	11,231		
3J - Building 324 Disposition Project	3,786	3,946	3,506	160	440	32,213	30,797	30,705	-1,416	91	0	0	0	52,797	50,830	1,967		
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET													10,380	10,380	0	0		
e. SUBTOTAL (Performance Measurement Baseline)	49,159	47,961	52,210	-1,198	-4,249	5,136,043	5,060,471	4,928,361	-75,572	132,109	0	0	0	5,711,728	5,570,594	141,133		
f. MANAGEMENT RESERVE													67,344					
g. TOTAL	49,159	47,961	52,210	-1,198	-4,249	5,136,043	5,060,471	4,928,361	-75,572	132,109	0	0	0	5,779,071				

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CONTRACT PERFORMANCE REPORT															Form Approved OMB No. 0704-0188	
FORMAT 3 - BASELINE															DOLLARS IN THOUSANDS	
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA			2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:			3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009			4. REPORT PERIOD a. FROM: 2017/05/22 b. TO: 2017/06/25							
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 4,312,366			b. NEGOTIATED CONTRACT CHANGE \$1,271,882		c. CURRENT NEGOTIATED COST (A + B) \$5,584,248		d. ESTIMATED COST AUTH UNPRICED WORK \$194,897		e. CONTRACT BUDGET BASE (C + D) \$5,779,145		f. TOTAL ALLOCATED BUDGET \$5,779,071		g. DIFFERENCE (E - F) \$74			
h. CONTRACT START DATE 6/19/2008			i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018			l. EST COMPLETION DATE 9/30/2018						
6. PERFORMANCE DATA																
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)						UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
			+1 Jul-17 (4)	+2 Aug-17 (5)	+3 Sep-17 (6)	+4 Oct-17 (7)	+5 Nov-17 (8)	+6 Dec-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE																
(BEGIN OF PERIOD)																
	5,086,884	46,422	33,182	32,640	46,770	26,852	39,592	33,906	3,391,477	391,653	471,323	504,826	486,619	446,891	6,561	5,699,350
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-012C-17-011R0, SRP Equipment Installation MR Draw													171	0		171
BCR-012C-17-012R0, EVM Health Corrections for RL-0012 CAP Project													0	0		0
BCR-030-17-021R0, Incorporate CO #318, NTE Increase													537	0		537
BCR-030-17-022R0, Defer Unfunded RL-0030 Planning Packages													(48)	48		0
BCR-030-17-023R0, Contract Mod 493, Re-Plan Analytical Services													0	(4,795)		(4,795)
BCR-040-17-014R0, RL-0040 Add TPA Milestone M-085-80A													0	0		0
BCR-040-17-016R0, RL-040 PUREX NTE for Recovery Stabilization of Tunnel													2,765	135		2,900
BCR-041-17-017R0, 324 Disposition Project Schedule Clean-up													(11)	11		0
BCR-041-17-027R0, Incorporate CO #305 increase the NTE Cost Authority													8,542	1,204		9,746
BCR-PRC-17-029R0, Update Level 1 WBS Dictionaries													0	0		0
BCRA-PRC-17-025R0, HPIC Updates June 2017													0	0		0
BCR-PRC-17-026R0, Undistributed Budget Adjustments June 2017															3,819	3,819
c. PM BASELINE (END OF PERIOD)																
	5,136,043	49,159	36,376	35,569	49,866	26,775	39,541	33,626	3,391,477	391,653	471,323	504,826	498,576	443,494	10,380	5,711,728
7. MANAGEMENT RESERVE																
																67,344
8. TOTAL																
																5,779,071

* CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED

OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA		FORECAST (Non-Cumulative)													AT COMPLETION (15)
WBS.Resp Org Group	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 JULY 2017 (4)	+2 AUG 2017 (5)	+3 SEPT 2017 (6)	+4 OCT 2017 (7)	+5 NOV 2017 (8)	+6 DEC 2017 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)	ATCOMPLETE (14)		
ORGANIZATIONAL CATEGORY (1)															
300 - Office of the President	7	705	6	6	6	6	6	6	6	18	18	18	0	0	795
303 - Internal Audit	5	458	5	5	5	5	5	5	5	15	15	15	0	0	534
304 - General Counsel	4	429	5	5	5	5	5	5	5	15	15	14	0	0	503
31 - Communications	8	991	9	9	9	8	8	8	8	25	25	24	0	0	1118
32 - Safety Health Security & Quality	52	6995	60	60	57	52	55	55	165	165	160	0	0	7824	
34 - Env Program & Strategic Plng	42	4683	43	42	41	44	46	46	138	138	135	0	0	5356	
35 - Business Services	67	7490	67	67	64	65	68	68	205	205	200	0	0	8500	
36 - Prime Contract & Proj Integr	71	4826	72	72	68	65	68	68	204	204	198	0	0	5844	
38 - Project Technical Services	35	5473	41	41	39	34	35	35	105	105	102	0	0	6010	
3B - PFP Closure Project	306	48423	279	196	170	65	47	18	37	0	0	0	0	49233	
3C - Waste & Fuels Management Project	364	48611	333	320	301	298	312	310	910	910	902	368	0	53575	
3D - Soil & Groundwater Remediation	318	35218	271	264	248	237	246	249	760	793	791	1280	0	40357	
3G - K Basin Oper & Plateau Remediation Project	371	46136	425	355	342	352	347	344	931	841	777	741	0	51591	
3H - 618-10 and ERDF	138	1453	151	151	143	43	44	45	128	124	85	0	0	2366	
3J - Building 324 Disposition Project	137	1196	109	91	90	40	46	40	113	111	108	0	0	1945	
g. TOTAL DIRECT	1925	213087	1875	1683	1585	1319	1339	1304	3770	3671	3528	2389	0	235551	

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYY/MM/DD) 2017/05/22			
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2017/06/25			
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE 2009/09/18 NO YES X					
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	49,159	47,961	52,210	(1,198)	-2.4%	(4,249)	-8.9%	0.98	0.92
Cumulative:	5,136,043	5,060,471	4,928,362	(75,572)	-1.5%	132,109	2.6%	0.99	1.03
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,711,728	5,570,594	141,133	2.5%	1.01				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The current month schedule variance is within reporting thresholds.									
Current Period Cost Variance: The current month negative cost variance is primarily due to PBS RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without Budgeted cost of work scheduled (BCWS), to support the remaining D&D work scope until the facility becomes ready for demolition. In addition, asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of approximately an additional 10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition-ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities. Unplanned shipments of drums to Perma-Fix Northwest, Inc. also contributed to the unfavorable variance. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab-on-grade milestone is met.									
The current month negative cost variance is partially offset by PBS RL-0041 project management and support accounts for 618-10 Burial Ground experienced significant underruns due to efficient use of resource sharing across the complex and reduced material usage.									
Also offsetting the negative cost variance is PBS RL-0012 realizing earned value on level of effort accounts for work scope completed ahead of schedule. This scope included in-basin equipment installation and Annex equipment installation activities. In addition, a review of fabrication contractor's accrual information showed information provided by the contractor was not consistent with progress on the firm, fixed, priced contract. This information resulted in a downward adjustment to the accrued costs to date.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: The current month schedule variance is within reporting thresholds.									
Current Period Cost: Delays in achieving slab-on-grade for PBS RL-0011 is requiring both Minimum Safe, and D&D Project Management resources to remain on project without BCWS.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: The current month schedule variance is within reporting thresholds.									
Current Period Cost: PBS-RL-0011 implemented tropical working shifts to mitigate future wind/heat impacts. Projects will continue to utilize O.T. when appropriate to attempt schedule recovery.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):

CHPRC continues to track completion of the contract scope within budget and is currently projecting a Variance at Completion of \$141.1 million, with \$67.3 million of Management Reserve (MR), for a total positive variance of \$208.4 million. For June, the project was 2.4 percent behind schedule and 8.9 percent under planned cost. Contract to Date (CTD), the project was 1.5 percent behind schedule and 2.6 percent under planned cost.

There were eight of the 12 BCRs in the period that impacted the PMB; BCR-012C-17-011R0 - *SRP Equipment Installation MR Draw*, BCR-030-17-021R0 - *Incorporate CO #318, NTE Increase*, BCR-030-17-022R0 - *Defer Unfunded RL-0030 Planning Packages*, BCR-030-17-023R0 - *Contract Mod 493, Re-Plan Analytical Services*, BCR-040-17-016R0 - *RL-040 PUREX NTE for Recovery Stabilization of Tunnel*, BCR-041-17-017R0 - *324 Disposition Project Schedule Clean-up*, BCR-041-17-027R0 - *Incorporate CO #305 Increase the NTE Cost Authority*, and BCR-PRC-17-026R0 - *Undistributed Budget Adjustments June 2017*.

Contractually Required Cost, Schedule, EAC variance, Management Reserve Use

Variance in Performance BAC and EAC: The variance at complete (VAC) between the BAC and EAC this month is a + \$141.1 million, +2.5% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPS - In Process		
	Total Authorized Unpriced Work	\$194,897
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	\$194,897

Use of Undistributed Budget (UB), Management Reserve (MR), and Fee Activity:

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-027R0	<i>Undistributed Budget Adjustments June 2017</i>	RL-0012, RL-0013, RL-0030, RL-0040, RL-0041	2017-2018	\$3,819K

The Undistributed Budget increased by \$3,819K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-012C-17-011R0	<i>SRP ECRTS Alternate Water Supply MR Draw</i>	RL-0012	2017 – 2018	-\$171K
BCR-030-17-023R0	<i>Contract Mod 493, Re-plan Analytical Services</i>	RL-0030	2017 – 2018	\$4,795K

Overall, there was an increase in Management Reserve (MR) of \$4,624K during June.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2017 – 2018	N/A

Overall, there was no change to the Fee during June.

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

Best/Worst/Most Likely Estimate: The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the ACWP plus the ECWR or BCWR if greater plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized), plus the scope identified in the Trend Log that is not in the EAC. The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

Prepared by:
Project Control Staff

Date:
7/17/2017

Approved by:

Date:

** In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.*

Appendix B

Project Services and Support (WBS 000)



T. L. Vaughn
Vice President for
Safety, Health, Security
and Quality

M. A. Wright
Vice President for
Project Technical
Services

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. N. Jaraysi
Vice President for
Environmental Program
and Strategic Planning

S. E. Johnson
Director of
Communications

R. M. Millikin
Vice President for
Prime Contract and
Project Integration

T. A. Heidelberg
Vice President for
Business Services
Chief Financial Officer

PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects as well as central management of cross-cutting services.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 83 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive; placed in Care Taker system.	9/30/17	20%
17-EMS-ADMIN-OB2-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish/utilize green catalogs to maximum extent for products beyond office supply purchases on the website.	10/9/17	32%
17-EMS-PTS-OB1-T1	Universal Waste, Recycling Compliance, Spill Prevention, and Satellite Accumulation Area Inspections.	Monitor and evaluate universal waste, other recycling, and satellite accumulation areas for compliance with CHPRC procedures and WAC 173-303 regulations.	9/30/17	72%
17-EMS-PTS-OB2-T1	Monthly chemical management inspection.	Ensure chemical products are accurately tracked, maintained, and excessed/disposed. Perform quarterly assessment on chemical inventory locations.	9/30/17	72%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	2	11	<ul style="list-style-type: none"> • 6/2/17 - Worker tweaked left knee while rounding corner of desk. (24477) • 6/14/17 - Worker strained shoulder when rising from a half standing position to full standing position. (24495)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

Safety, Health, Security, and Quality (SHS&Q)

- There were two First Aid cases during the month of June in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continuing support for the development of an Industrial Hygiene Technician Fundamentals training program to be provided by HAMMER.
 - Completed assessment in support of the annual Worker Safety & Health Program communication to RL.
 - Provided equipment evaluation and plan support to Project Technical Services (PTS) for the physiological monitoring pilot for the reduction and oxidation (REDOX) roof project.
 - Provided technical support and management oversight to REDOX roof repair project.
 - Kicked off the Driver Awareness safety campaign to run through the end of the fiscal year.
 - o Radiological Control accomplishments:
 - Continued to provide radiological work planning support to Waste and Fuels Project and Central Plateau Surveillance and Maintenance Project.
 - Completed SHS&Q-2017-WSA-16325, *Semi-Annual Radioactive Material Area (RMA) Review*.
 - Completed reviews and approved Technical Evaluations (TEs) for:
 - Soil and Groundwater Remediation Project Characterization in Support of Surveys, Air Sampling and Dosimetry.
 - Central Plateau Surveillance and Maintenance Radiological Control Management of Former Plutonium Facilities.
 - Provided procedure transition and Radiological Work Planner qualifications support to the Environmental Restoration Disposal Facility (ERDF) and 300 Area Projects.
 - o Nuclear Operations Support & Compliance accomplishments:
 - Correspondence transmitted to RL:
 - Letter, CHPRC-1701709 R1, dated June 6, 2017, *Transmittal for Approval of the Comment Resolved Annual Update to the 324 Building Basis for Interim Operation*,

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CHPRC-02979, Revision 2, the 324 Building Technical Safety Requirements, CHPRC-02980, Revision 1, and the Addendum to the 324 Building Basis for Interim Operation for Stabilization, CHPRC-02983, Revision 1.

- Letter, CHPRC-1702509, dated June 13, 2017, *Transmittal of the 2016-2017 Annual Unreviewed Safety Question Determination Summary for CHPRC Transportation Safety.*
 - Letter, CHPRC-1701235A R1, dated June 13, 2017, *Request for approval of the One-Time Request for Sludge Transport from K West Basin to T Plant, CHPRC-03111, Revision 0.*
 - Letter, CHPRC-1702130, dated June 13, 2017, *Transmittal of the 2017 Annual Update of the Tank 241-Z-361 Safety Basis and Unreviewed Safety Question Determinations Summary.*
 - Letter, CHPRC-1702684, dated June 26, 2017, *Interim Hazard Categorization of the K Basin Annex During K Basin Pre-Operational Acceptance Testing of the Sludge Retrieval and Transfer System.*
 - Letter, CHPRC-1702855, dated June 28, 2017, *Transmittal of the Hanford Sitewide Transportation Safety Document, DOE/RL-36-2001, Revision 2.*
- Other documents:
- CHPRC-01383, *1800TL Tiedown to five 10-ft and one 9-ft Wide Trailers, Revision 1*
 - CHPRC-03292, *General Services Open-Head Stainless Steel Drum Procurement Specification, Revision 2.*
 - CSER 17-001: *Criticality Safety Incredibility Analysis for the Demotion of the 291-Z Facility, CHPRC-03222, Revision 0.*
 - CSER 15-002: *Criticality Safety Incredibility Evaluation Report for the Final Demolition of Buildings 234-5Z, 236-Z, and 242-Z, CHPRC-02512, Revision 4.*
 - CE-SPA-PFP-2017-001, *Contaminated Equipment Special Packaging Authorization (CE-SPA) Shipment Evaluation Checklist (SEC) for Shipment from PFP to ERDF, Revision 1 (CHPRC approved).*
 - OA 71867, *RL Review of the CSB Safety Basis 2017 Annual Update (No Changes) and USQ Determinations.*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 312 Condition Reports (CRs) were screened:
 - One significant issue identified.
 - Six adverse issues identified.
 - 115 Track Until Fixed issues identified.
 - 91 Trend Only items identified.
 - 94 Opportunity for Improvement (OFI) items identified.
 - Five Screened Out.
 - 295 CRs administratively closed.
 - 401 CRs actions administratively closed.
 - Providing full time support to Plutonium Finishing Plant (PFP) Issues Management and Occurrence Reporting activities.
 - Completed Apparent Cause Evaluation for and transmitted Final Occurrence Reporting and Processing System (ORPS) report EM-RL-CPRC-PFP-2017-0011, *Spark Observed While Preparing to Plug in Flow Rate Meter Charging Cable.*
 - Provided course 080983, *DOE Enforcement Program (PAAA/WSH) Oversight* to nine employees.
 - Provided support and coordination for the Bi-Monthly Defense Nuclear Facility Safety Board (DNFSB) Site Representative Meeting.
 - 18 documents were provided in response to DNFSB requests for information.

- Provided support and coordination for the 300-296 Soil Removal Project Presentation to the DNFSB.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - One internal Lesson Learned was submitted to OPEXShare in June, 2017-KBO&PR-0001-*Procurement and Fabrication of Stainless Steel*.
 - Issued assessment plan and performed in-field activities for the 10 CFR 835 Subpart E, “Monitoring of Individuals and Areas,” surveillance scheduled for June through July.
 - Completed and issued surveillance report, SHS&Q-2017-SURV-17919, for Safety Management Program (SMP) Line of inquiry (LOI) 14-4-3, evaluate whether supplier performance is monitored where required during the life of the contract to ensure they continue to satisfy the requirements.
 - Developing Quality Assurance Engineer qualification card with training organization for improvement implementation.
 - Supported the RL audit of the CHPRC Independent Assessment process.
 - Completed the Mid-Point Effectiveness Review of the CHPRC Conduct of Work Improvement process (CR-2017-0341, SCA-10).
 - Official kickoff of the fiscal year (FY) 2018 Integrated Evaluation Plan (IEP) Assessment Planning phase; met with Project Assessment Coordinators to define roles and outline planning schedule.
- o Fire Protection accomplishments:
 - 17 new and updated Fire Protection Program procedures have been formatted as part of the Fire Protection Program update on schedule for roll-out before September 15, 2017.
 - A new Fire Protection Engineering graduate has started work and is beginning Site Engineering Training.
 - Two Associate Fire Protection Engineers have successfully completed their qualifications card for CHPRC Site Engineer this month.
 - Completed the 105KW Implementation Plan and Engineering Change Request (ECR).
 - Assisted 100K Engineering with the closure of the Equivalency granted to 105KE and 105KW.
 - Deactivation Analysis for Building 2727W was completed.
 - PFP Support:
 - Submitted equivalency modification letter to RL (CHPRC-1702685).
 - Completed and released the approved deactivation analysis for 234-5Z (CHPRC-03270).
 - Drafted final deactivation analysis for 234-5Z (CHPRC-03363).
 - A computer model for radiological assessment (Hot Spot) as a replacement for the use of the HIMES Model in Fire Protection analyses is being tested with the 324 Building Facility Hazards Analysis (FHA).
 - The following Technical Safety Requirement (TSR) activities were completed:
 - Solid Waste Operations Complex (SWOC):
 - o The Quarterly Combustible surveillance for the Low Level Burial Grounds (LLBG).
 - o The Quarterly Combustible Surveillance for the Waste Receiving and Processing (WRAP) Facility.
 - o Annual assessment of the FHA Key Assumptions for the Central Waste Complex.
 - PFP:
 - o SR 5.18.4.2 – Monthly inspection of facility and exterior for compliance with Fire Protection combustible controls.
 - o SR 5.19.4.3 – Monthly inspection of facility for energized power cords, energized battery chargers and spontaneous ignition source material.

- o SAC 5.20.2 – Bi-weekly inspection of front side ventilation zone one areas – performed by the facility Fire Safety Officer.
- Facility Hazards Analysis (FHA):
 - Plutonium Uranium Extraction Plant (PUREX) FHA, Revision 2 is in comment review with Hanford Fire Marshall Office (courtesy copy provided to RL SME)
 - PFP FHA Revision 5 is in the review cycle.
 - Completed comment disposition of PFP Revision 5 FHA (CHPRC-00179).
 - The 105KW FHA is published and submitted with the Documented Safety Analysis (DSA)/TSR.
 - SWOC FHA is published and submitted with the Master DSA (MDSA)/TSR.
 - B Plant FHA is in comment review; issues are being worked with the Hanford Fire Marshall Office.
 - Five facility Fire Protection Assessments were completed in June.
- SHS&Q Focus Areas:
 - o **Issue:** Beryllium program assessment findings from Department of Energy (DOE-HQ), Office of Safety, Health and Security Independent Oversight Inspection report.
 - o **Status:** Revision 4 continues to be developed by the Hanford Beryllium Committee.
 - o **Action:** Beryllium facility assessments and characterization remain on schedule. Beryllium facility assessments have been completed on 1,476 CHPRC facilities.
 - o **Issue:** Accident & Injury Reduction.
 - o **Status:** Continue investigating recordable, days away, restricted, or transferred, and First Aid injuries to determine cause, prevention and reduction to prevent recurrence. Project safety campaigns are effective.
 - o **Action:** Injury trends continue to improve across the PRC.
 - o **Issue:** PFP support.
 - o **Status:** Supporting PFP and other projects with dedicated OS&IH personnel and Radiological Control personnel, from the SHS&Q Central group for Senior Supervisory Watch of high-risk work activities.
 - o **Action:** Continuing senior supervisory watch for PFP demolition activities based upon specific hazard activities in coordination with PFP management.
 - o **Issue:** Fire Protection program improvements.
 - o **Status:** CHPRC Fire Protection personnel are actively interfacing with Hanford Fire Department (HFD) and RL regarding Fire Protection program improvements related to fire hazard analyses.
 - o **Action:** Weekly Fire Protection program status and initiatives presented each week to the SHS&Q vice president continue to show improvement.

Environmental Program and Strategic Planning (EP&SP)

- **Environmental Protection**
 - o **Compliance Status**
 - CHPRC and RL received an Administrative Order (AO) from the Washington Department of Ecology on May 10, 2017 (17-NWP-053; Order Docket 14156) in response to the PUREX Tunnel partial collapse discovered on May 9, 2017. The Order requires three corrective actions to be completed between July 1, 2017, and October 1, 2017. The first corrective action (structural integrity evaluations for PUREX Tunnels 1 and 2) will be submitted to Ecology on June 29, 2017, to meet the AO requirement. CHPRC is leading the corrective action response team and working collaboratively with RL to complete the remaining two corrective actions on schedule.

- CHPRC has successfully negotiated a resolution of the AO and Notice of Penalty, which Ecology issued on August 8, 2016, based on alleged noncompliances at T Plant. Following mediated sessions, a settlement agreement will be executed on June 29, 2017, dropping the Order and Penalty. CHPRC agreed to establish a less than 90-day accumulation area in T Plant where waste generated inside the facility would be stored until specific waste codes were identified. This commitment does not affect any other TSD facility on the Hanford Site. Ecology has removed links to the Order and Penalty from its enforcement web page, and substituted a link to the settlement agreement.
 - An external assessment of the CHPRC Environmental Management System (EMS) against the ISO 14001:2004 standard was completed on June 22, 2017. The Audit concluded that the EMS is effective and identified seven positive practices, one opportunity for improvement, and zero nonconformances.
- **Environmental Compliance & Quality Assurance (EC&QA)**
 - o **Assessment Program**
 - A surveillance assessing PFP compliance with Historical Protection requirements in the performance of demolition activities was conducted by EC&QA. The surveillance identified two opportunities for improvement.
 - A work site assessment was conducted by EC&QA providing an independent visual inspection of the surface of the 100-K-116 waste site following remediation activities. Assessment concluded that the waste site does not contain visible asbestos-containing material, supporting reclassification of the waste site to “interim closed out”.
 - A work site assessment was conducted by EC&QA providing an independent visual inspection of the ground surface of the T Plant Loading Dock 2 footprint following demolition activities. Assessment concluded that the ground surface does not contain visible asbestos-containing material.

Business Services

- **Supply Chain:**
 - o Met with project representatives from Soil & Groundwater to discuss methods for achieving continuous core sample analysis services. Currently, these services are performed by a single-source entity that will be in the final option year. CHPRC will develop an Expression of Interest/Request for Information for 3,000 sample analyses over a 3- to 5-year period.
 - o Met with project representatives from the 300-296 Project to establish cost/fee incentive parameters for the interference removal subcontract that is planned to be awarded by the end of FY2017.
 - o Met with project representatives of the PUREX Tunnel Stabilization project to establish the procurement strategy for several procurement actions designed to support the eventual grouting of PUREX Tunnel 1. The initial Scope of Work (SOW) for the gravel roadway was developed. Contact was made to determine the availability of specialty cameras and lights that will be used to perform tunnel integrity assessments. Coordination with construction and portable office vendors were made to assist in determining resource availability. Draft SOWs were developed for service support contracts, and a procurement strategy was developed for training support on specialized equipment.
 - o Participated in a Value Stream Mapping session to assist Mission Support Alliance (MSA) in identifying improvements to the current supply chain management systems.
- **Facilities & Property Management (F&PM):**
 - o The FY2017 Inventory campaign continues – 76.20 percent complete to date.

- o Move planning/execution for RL and CHPRC between the Federal Building and 2420 Stevens Center Place continues. Expect all CHPRC personnel to be in the Federal Building by mid-July. Final Federal Building configuration complete by the end of August.
- o Support to new shower trailer for S&GRP Drilling and Sampling Operations at Waste Sampling and Characterization Facility continues. Trailer is currently in “build-out” stage at vendor’s facility.
- o Planning for the new single-wide office trailer in the 400 Area in support of potable water operations continues. MSA to get placement permits. Cultural Review is complete. Completed geophysics ground scan for trailer set. Facilities Modification Package (FMP) has been completed. Trailer electrical service will be installed on-grade in rigid conduit, with no trenching required.
- o Canceled the single-wide restroom trailer originally planned as an addition to the 300 Area in support of the 324 Building project.
- o 85 percent complete on setup of new five-wide trailer at WESF.
- o Demobilization of MO-855 and MO-806 continues. MO-855 will be returned to vendor, MO-806 will be relocated to PUREX and set up to support stabilization of tunnel storage.
- o Began initial planning to relocate seven mobile trailers from PFP to be set up at REDOX.
- **Finance:**
 - o June month-end completed with no cost suspensions.
 - o Construction Work in Progress (CWIP) reconciliation is continuing, with applicable backup placed on a share drive for RL to access and review.
 - o Provided responses to the RL FY2015 Invoice Assessment.
 - o Processed variance distributions for the labor adders under recovery of \$6.5 million and the G&A over recovery of \$8.1 million.
- **Human Resources (HR):**
 - o Received approval from RL for updates to PRC-PRO-HR-046, “Compensation Exempt and Salaried Nonexempt Employees.” The updates included amendments to Appendix F – Stipend Pay, and also included language specific to competitive posting and other minor edits.
 - o HR participated in the 2017 Willis Towers Watson US General Industry Salary Budget Survey. The results and data provided in this survey enable CHPRC to gauge our position to market and follow merit budget trends across the United States.
 - o The upgrade to PeopleSoft 9.2 was implemented in production on June 11, 2017.
 - o CHPRC took the lead to coordinate and schedule the first of a new quarterly meeting of the Equal Employment Opportunity (EEO)/Diversity representative from each of the Hanford contractors and the RL EEO officer.
 - o Supported the new PFP tropical shift by setting up appropriate shift codes and administrative requirements for appropriate time charging and pay.
 - o Achieved three affirmative action placement goals in the categories of ‘Scientists,’ ‘Craft-other,’ and ‘HPTs’.

- **Labor Relations (LR):**
 - o The following is the current status of grievances in the Arbitration Process:
 - PRC-015-011 – union claiming mis-assignment of work in regard to respirator maintenance. Status: Arbitration scheduled for October 11, 2016, was postponed by mutual agreement as parties work to reach settlement in the matter. CHPRC is awaiting a response from the Union on the company’s settlement proposal.
 - PRC-016-036 – discipline. Status: Parties reached a settlement agreement on May 23, 2017, to place grievance in abeyance. No further discipline is required; therefore, Union to withdraw grievance.
 - PRC-016-044, 049, & 050 – termination. Status: Arbitration scheduled for April 25 and 26, 2018.
 - PRC-016-059 – failure to meet CHPRC pre-employment screening. Status: Arbitration scheduled for November 1, 2017.
 - PRC-017-010 – union claiming employee should have been paid for three days between when he was ready to return to work and when he started with MSA, as CHPRC did not have an open position when he returned. Status: Arbitration scheduled for February 28 and March 1, 2018.
 - o Labor Relations continues to support Work Force Restructuring activities for affected bargaining unit employees working with all of the CHPRC projects and the other Hanford contractors to coordinate staffing needs and skills mix issues, and provide opportunities for affected employees.
- **Procurement:**
 - o Awarded/amended 118 contracts with a total value of \$11.2 million. Additionally, awarded 192 new material purchase orders (PO) valued at \$476,643 to support ongoing project objectives.
 - o At the end of the first 105 months of the CHPRC project, procurement volume has been significant; \$2.55 billion in contract activity has been recorded with approximately 55.20 percent, or \$1.4 billion, in awards to small businesses. These awards include 7,808 contract releases, 23,238 POs, and 277,105 PCard transactions.

- o Major contract awards:

Contract/ Release	Award Date	Awarded To	Title	Contract Type	Value
36883-56	5/25/17	Ojeda	300-296 Mockup Infrastructure Modifications	FFP	\$415,765.37
54177-72	6/1/17	Intera Incorporated	100-K Ri/Fs Technical Support	T&M	\$609,011.00
55705-4	6/5/17	Intermech Inc	T Plant Dock #2 Modifications	FFP	\$168,000.00
55746-5	6/13/17	Ojeda	200e Csb North & South Rolling Shield Gate Structure Repairs	FFP	\$103,030.30
36538-101	6/14/17	Watts Construction Inc	Task 4: Hr-3 6 Pads/2 Roads Fy 2017	FFP	\$ 68,700.00
60312-3	6/21/17	Watts Construction Inc	300-296 Building Trades Project Support	LHC	\$420,000.00
54134-10	6/21/17	Columbia Energy & Environmental Services Inc	Garnet Filter Retrieval System	FFP	\$491,414.03

FFP - Firm Fixed Price

LHC - Labor Hour

T&M - Time and Materials

Prime Contract and Project Integration (PC&PI)

- o A Minor Change to PRC-MP-MS-19361, CH2M Hill Plateau Remediation Company Project Execution Plan was approved internally and transmitted to RL on May 2, 2017. The changes reflect the CHPRC assumption of the River Corridor Cleanup Contract work scope and the corresponding CHPRC organization structure. A concurrence response letter was received from RL on June 6, 2017; CHPRC-MP-PM-19361 was released in the PRC Procedure System on June 19, 2017.
- o PC&PI Chaired a Project Review Board (PRB) review of the Waste and Fuels Management Project (WFMP) Management of the Cesium and Strontium Capsules (MCSC) Project (W-135) readiness to submit the CD-1 package for review and approval. Approval of a CD-1 package by DOE signifies that the project has completed an Analysis of Alternatives and established a Range estimate Cost and Schedule (not to be exceeded value is 150% of the top end of the range estimate). At the end of the June Reporting Period, the PRB team had not had a chance to complete a full review of updated cost/schedule information. Significant progress, however, has been made in preparation of the AACE Class 4 Range Cost Estimate; final review of the Range Cost Estimate was an open action item at the end of the June Reporting Period. Completion of the Range Cost Estimate and publication of the PRB Report (CHPRC-03307) are expected by the end of July.

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- **Prime Contract Compliance (PCC):**
 - o In June, PCC received and processed eight contract modifications (594, 596, 598, 604, 606, 610-612) from RL.
 - o The Correspondence Review Team received and determined the distribution for 65 incoming letters/documents. The PCC Manager reviewed 32 outgoing correspondence packages.
 - o Issued CHPRC-1702074A R1, “*Impact Analysis for Contractor Requirements Document O 551.1D, Change 2, Minor Revision to DOE O 551.1D, Official Foreign Travel.*”
 - o Issued CHPRC-1702240, “*Notification of Impacts to Performance Measure PM-30-5-17 Prepare and Submit Draft A 100-D/H Remedial Design/Remedial Action Work Plan.*”
 - o Issued CHPRC-1702505, “*Proposed Clarification for Performance Measure 13-2-17 Completion Criteria.*”
 - o Issued CHPRC 1702464, “*Notification of Change for Implementation of Follow On Work Scope Recommended in the 200-BP-5 Removal Action Work Plan, DOE/RL-2017-11, Draft A.*”
- **Integrated Services**
 - o **Estimating & Program Support**
 - No Change Proposals/Request for Equitable Adjustments (CPs/REAs) were submitted to RL in June 2017.
 - Twenty-two CPs/REAs have been submitted in FY2017 to-date, twenty-one on or ahead of schedule with one CPs/REA submitted late.
 - Began/continued development of CPs/REAs:
 - CP 041 328 1656 - 300-296 Waste Site Additional Scope.
 - REA 000 PRC 1643 - Hanford Site Safety - Confined Space Gap Training.
 - CP 041 PRC 1657 - Plutonium Uranium Extraction (Plant) Tunnel Recovery/Stabilization.
 - CP 040 PRC 1658 - U Plant Demolition Deductive Proposal.
 - Supported six Truthful Cost or Pricing Data (TCoPD) updates for CPs/REAs:
 - CP 041 305 1616 - 300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris, submitted June 15, 2017.
 - CP 041 306 1597 - River Corridor Closure Contract (RCCC) Remaining Closure Operations.
 - CP 041 307 1621 - 100-K Additional Tons FY2016 and FY2017.
 - CP 040 311 1625 - Emergency Response for Facility/Waste Site Environment, Safety, Health & Quality or Remediation, submitted June 29, 2017.
 - CP 013 317 1631 - Compliance with Tri-Party Agreement Milestone Change Control Form M-91-15-01.
 - CP 013 322 1639 - Integrated Disposal Facility Revised Operational Requirements.
 - Supported four RL requests for information (RFIs) for four CPs/REAs:
 - CP 041 305 1616 - 300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris.
 - CP 040 306 1596 - 618-10 Burial Ground, submitted response on June 20, 2017.
 - CP 013 308 1629 - Management of the Cesium and Strontium Capsules Capital Asset Project Deductive Proposal, response submitted June 7, 2017.
 - CP 012 327 1646 - Sludge Retrieval Project Acceleration of 105KW and T Plant, responses submitted June 6, 2017.
 - Miscellaneous estimating support:
 - Continued to support the development of the FY2018 Performance Measurement Baseline (PMB) update and the out-years Long Range Plan (LRP) Annual Update deliverables due to RL in July 2017.

o **Interface Management:**

- Interfaces (Technical, Administrative, and Regulatory):
 - Provided Washington River Protection Solutions (WRPS) a list of groundwater well assignments to evaluate and align Groundwater Well assignments/ownership in the site Sunflower property system. Activities to update Sunflower are underway; WRPS will provide final list of wells to CHPRC Property Management once they've been re-assigned.
 - Communications between WRPS at 222-S and CHPRC's safety upgrade efforts at REDOX included communications related to a voided RWP at REDOX, notification of upcoming steam line removal, traffic revisions to support WRPS work at 219-S and potential impacts from upgrades to the water systems adjacent to REDOX. Initiated preliminary discussions involving CHPRC potential support to remove WRPS Steam Lines between 222-S and REDOX.
 - Continued coordinating multi-contractor responses and impacts related to the PUREX Tunnel recovery actions. June actions included initiating site evaluation process for temporary trailer installation and briefing the Contractor Interface Board on the schedule, preliminary recovery action plan, and potential for controlled access areas during the recovery actions.
- Annual Forecast of Services:
 - Continued support of the annual FY2018 PMB update; the MSA annual service forecast update is included in this activity. Preliminary Usage Based Service forecast data was provided to MSA on 6/22/2017. Follow-up meetings with the MSA Service Managers are planned for July 2017.
 - Continued flow of communication/requests for MSA resources, as required by emerging project needs. During June, CHPRC released two riggers back to MSA to support a one-week MSA priority task.
- Inter-Contractor Issue Resolution:
 - Continued communications between MSA Infrastructure Projects (water/sewer upgrades) and CHPRC Surveillance & Maintenance and Remedy Selection Project point of contacts to communicate concerns related to new infrastructure crossing over, under, and through Waste Information Data System (WIDS) sites slated for near-term remediation. CHPRC Interface Management will continue to facilitate discussions and monitor information exchange.
 - MSA Electrical Utilities (EU) identified issues with the locations of CHPRC pump and treat water lines/piping and the EU "right-of-way" for access to their overhead power lines/poles. MSA is working with engineering from the Groundwater Project to identify mitigation activities.
- Controlling and Service Agreements:
 - Initiated discussions with the Other Hanford Contractors Interface Management leadership regarding possible improvements to the Injury/Event Reporting responsibilities in the Prime Contractors Memorandum of Agreements. The primary area of discussion relates to the criteria of which supervisory capacity is established during these incidents. Discussions were initiated by WRPS after the causal analysis was completed on the Effluent Treatment Facility (ETF) trailer uncoupling event in the bay area of the facility. Effort is ongoing with follow up meetings planned for July 2017. Finalizing Administrative Interface Agreement (AIA) with MSA, PNNL, and JCI for utilities in the 300 Area.
 - HNF-48239, Revision 5, *Roles and Responsibilities for the Safeguards and Security Program, Administrative Interface Agreement between CHPRC and MSA for Safeguards*

and Security Services, was transmitted to designated CHPRC and MSA reviewers in accordance with the annual AIA review process and is undergoing minor revision. Revision 6 of the AIA is anticipated to be issued in July 2017.

- Sent five Service Delivery Documents (SDDs) out for review and comment during the month of June.
- Completed CHPRC review of three SDDs and provided response to MSA.
- J.3 Table Maintenance: no performance level actions occurred within the month of June 2017.
- J.13 and J.14 Tables Maintenance:
 - WRPS has contacted PRC Prime Contract Compliance regarding the transfer of the 622S Lysimeter (J.13 facility) to WRPS. CHPRC is awaiting contract direction from RL to allow the transfer.
- Internal Operations:
 - Two document revisions remaining related to the RCCC scope transfer to CHPRC. Involved parties include, PNNL, and MSA. One revision (300 Area Utilities) is in final review, the other is a major revision (environmental data integration) that is about 50 percent complete.
 - Resolved MSA dispute over water utilities scope to prepare and release a restroom trailer for use at the 324 mock up facility, in support of 300 Area projects mobilization and setup.
 - Communicated upcoming water system testing activities in the 300 Area to the CHPRC 300 Area facility representatives. Water system testing activities are in support of transfer of the water distribution system to PNNL in FY2018. At this point, initial testing activities are being supported by the CHPRC facilities.
 - Worked with CHPRC Central Waste Complex (CWC) engineering to address ownership and maintenance program for “gap” sectionalizing valves between MSA Water Utilities and the MSA Fire Protection Inspection, Testing and Maintenance organization. Gap investigation, showing the valves that lacked appropriate maintenance in relation to the demarcation documented in the Water Service Interface Control Document, was presented to MSA Subject Matter Experts and Interface Management. During June, the ownership and maintenance program was confirmed to be with MSA Water Utilities. MSA Water Utilities has the action to add the sectionalizing valves, identified in the gap investigation, to the existing procedure/work package for CWC preventative maintenance.
 - Interfaced with CHPRC Labor Relations to discuss process improvements in acquiring and managing MSA Teamster Loaned Labor. Topics included initial training requirements, return to work approval process, and how to manage/address performance issues. Discussions have led to initiation of an AIA to document processes and responsibilities between PRC and MSA.
 - Continued supporting internal discussions with Canister Storage Building (CSB) engineering regarding the future use/ownership of the local “Fire Pump” and any impacts to the Other Hanford Contractors.
- o **Information Management:**
 - Processed 25,715 Electronic Records into the Integrated Document Management System (IDMS).
- **Project Integration**
 - o During June, Project Integration facilitated and supported the processing of 12 baseline change requests (BCRs).

- o First draft of the new Earned Value Management System Description (EVSD) exclusions for Non-capital Asset Projects has been completed and is currently in review.
- o Testing of the Earned Value Cost Schedule Analysis (EVCSA) Version 3.0 has begun with initial findings (test errors) to be submitted to Department of Energy-Headquarters (DOE-HQ)/Project Management Policy and Systems (PM-30) in July. Testing will continue through the remaining guidelines/Lines of Inquiry (LOIs) in an ongoing effort to confirm the results are valid.
- o Previous version (EVCSA 2.0) test results found to produce valid data results and are being worked by the Project Integration and the Project staff to correct and or annotate data deficiencies such as duplicate WBS and activity titles, cost only work packages, and high durations.
- o Management is also working to address policy and process challenges associated with:
 - Actual Cost of Work Performed (ACWP) without Budgeted Cost for Work Scheduled (BCWS)
 - Lower Level Task Orders (LLTO) usage
 - Estimate to Complete (EAC) non-baseline Parent/Child activities.
- **Program Integration**
 - o **000 Project EVM Support:**
 - Completed Indirect FY2018 estimate to complete (ETC) and FY2019-FY2022 LRP.
 - Participated in FIMS Maintenance teleconference with RL, MSA Real Estate Services, WRPS Property, Savannah River DOE, and Idaho Falls DOE to share well-tracking practices.
 - Completed 000 MSA Service forecast estimate. Supported project use of MSA services forecast tool. Provided projects with prior year cost and user based service reports to help provide basis for FY2018 estimates.
 - Prepared and submitted May Indirect Project Review.
 - Provided input for BCR-PRC-17-029R0 Update Level 1 WBS Dictionaries.
 - Completed matrix of corrective actions to improve Maintenance cost collection related to Management Assessment PC&PI-2017-MA-18735 Maintenance Tracking Assessment.
 - o **Risk Management and Reporting:**
 - Issued the CHPRC May Monthly Performance Report to RL.
 - Compiled Internal Project Team package for May performance data.
 - Compiled May Project Review packages for review.
 - Provided PC&PI input into Contractor Assurance System (CAS) May Report.
 - Issued CHPRC May Corporate Program Performance report.
 - Supported development of the CHPRC May Monthly Highlights to the Nuclear Business Group.
 - Completed risk elicitations in support of LRP / FY2018 Annual ETC for RL-13.
 - Initiated CHPRC Risk Database crosswalk to ensure risk values are consistent with PRC-PRO-PC-40079, *Risk Management Plan*.

o **Strategic Management:**

- In June, Strategic Management partnered with all projects to produce initial drafts of 2-, 5-, and 10-year goals for all projects. These goals will be used in discussions with CHPRC and RL management to align the focus of cleanup over the next 10 years at each project. Work will continue in July on these goals, including a partnering workshop with RL.
- Implemented the FY2018 Integrated Priority List (IPL) to incorporate near-term and long-term priorities into planning for the PMB deliverable, due at the end of July. The IPL includes LRP scope and emerging priorities, and incorporates elements of the RL 2020 vision. The FY2018 IPL has been based on partnering sessions between CHPRC and RL.
- Updated CHPRC FY2017 Execution Year Priority list per the June field execution schedule (FES) projected completion dates and posted on the CHPRC internal website.
- Strategic Management completed a final of a draft risk matrix assessment of CHPRC-led projects to share with RL, which will rate all projects on three main criteria: risk reduction, mortgage reduction/return of investment (ROI), and regulatory drivers. In addition, all projects have now been assessed based on costs, proximity to major facilities, consequences of failure, and proposed timeframes. This risk matrix has been used to support priority discussions with RL.
- Continued to load the LRP effort as part of the PMB deliverable for this year. During June, projects were completing planning and support documentation for this effort, which includes detailed scope through FY2020 and a higher-level scope through FY2022. Strategic management is supporting various projects in this effort, and providing resources to ensure successful completion of the LRP. Specific support included the scheduling for the KW Deactivation, Demolition, soil remediation, and K East and K West Reactor long-term storage. In addition, partnering with Soil & Groundwater for their long-term strategies continued.
- In June, continued supporting the administrative orders and response to the PUREX Tunnel collapse incident and reviewing similar structures with potential for external aging-related issues. Took part in multiple meetings, and drafted an initial priority list of aging structures (cribs) for the project to evaluate. Specific research occurred on Tunnel 2 and review of its proposed structural integrity response for Administrative Order 1.
- Supported multiple project's technical requests, including continuing assistance with alternative M-91 transuranic (TRU) processing facilities, research on a legacy waste box processing anomaly, as well as continued support of ERDF radionuclide disposals, and Risk & Modeling Integration, which supports the issuance of the annual surveillance and maintenance review required by the ERDF performance assessment.
- Held a Productivity Tracking Log meeting with the projects in June. Discussed company-level metrics, and the projects briefed their metrics of productivity delays and efficiencies. Reviewed the Productivity Process with senior management, and will institute improvement initiative to ensure process provides key data and decision making information back to project stakeholders.

PTS

- Engineering Services
 - o Engineering Services has been supporting Mission Support Alliance, LLC, in the repair of the thin film dryer located at Effluent Treatment Facility. The repair requires an "R" Stamp holder (HiLine Engineering) to perform the repair. The CHPRC welding program's welding procedures will be used in the repair.

- o Prepared a study guide for supervisor qualification to meet requirements for DOE-0359 Revision 3, *Hanford Site Electrical Safety Program*.
- Operations Program
 - o ConOps/Work Control/Conduct of Work
 - Commenced work on revising the Building Trades (Constructions) Craft Hazard Analysis.
 - Completed assessment on Post Maintenance Testing (PTS-2017-WSA-17789).
 - Quarterly Safety Notification Report updated and routed for CHPRC internal approval.
 - o Emergency Preparedness (EP)
 - Update Building Emergency Plan/FRP plan for RL directed Resource Conservation and Recovery Act of 1976 (RCRA) Permit format change.
- Project Delivery
 - o Federal Building Upgrades
 - Continued carpet cleaning, patching, and painting walls as rooms are vacated.

Communications

- Communications supported RL in conducting interviews and providing information that generated the following articles in the media:
 - o *Tri-City Herald* (June 14, 2017): 618-10 Burial Ground Progress – “[Hazardous Hanford radioactive waste pipes near Richland are history](#)”
 - o *Tri-City Herald* (June 9, 2017): PFP Progress –
 - “[Hanford workers who took cover offered radiation testing](#)”
 - “[Time lapse of demolition of the Plutonium Reclamation Facility](#)”
 - “[350 workers ordered to take cover at Hanford after radiation alarm](#)”
 - o *Tri-City Herald* (May 31, 2017): PUREX Tunnel Progress – “[Next step on partially collapsed Hanford tunnel - fill it up](#)”
- Communications supported RL in the development of several social media posts, including:
 - o PFP ventilation system shut down.
 - o Groundwater optimization at Hanford.
 - o 618-10 Burial Ground final stages.
 - o 324 Building waste removal.
 - o New roof for REDOX plant.
 - o Preparations for filter box removal at PFP.

PROJECT BASELINE PERFORMANCE
Current Month
(\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.2	0.2	0.2	0.0	0.0%	0.0	-24.9%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	3.0%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	23.4%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	-31.0%
Safety, Health, Security, and Quality	1.5	1.5	1.5	0.0	0.0%	0.0	2.2%
Environmental Program and Strategic Planning	0.6	0.6	0.6	0.0	0.0%	0.0	5.5%
Business Services	2.3	2.3	2.6	0.0	0.0%	(0.3)	-12.9%
Prime Contract and Project Integration	2.4	2.4	2.4	0.0	0.0%	0.0	0.2%
Project Technical Services	0.7	0.7	0.8	0.0	-0.2%	(0.1)	-12.4%
Indirect WBS 000 Total	8.1	8.1	8.5	0.0	0.0%	(0.4)	-4.4%

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

CM Schedule Performance: (+\$0.0M/+0.0%)

The variance is within reporting thresholds.

CM Cost Performance: (-\$0.4M/-4.4%)

The variance is within reporting thresholds.

Fiscal Year-to-Date (FYTD) (\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	1.3	1.3	1.4	0.0	0.0%	(0.1)	-5.3%	1.8
Internal Audit	0.9	0.9	0.6	0.0	0.0%	0.3	32.6%	1.2
General Counsel	1.1	1.1	0.9	0.0	0.0%	0.2	17.9%	1.5
Communications	0.8	0.8	0.9	0.0	0.0%	(0.1)	-17.8%	1.1
Safety, Health, Security and Quality	11.5	11.5	9.6	0.0	0.0%	2.0	17.1%	15.7
Environmental Program and Strategic Planning	4.3	4.3	3.4	0.0	0.0%	0.9	21.0%	5.8
Business Services	17.7	17.7	17.9	0.0	0.0%	(0.2)	-1.3%	24.1
Prime Contract and Project Integration	18.0	18.0	15.8	0.0	0.0%	2.2	12.4%	24.5
Project Technical Services	5.5	5.5	5.3	0.0	0.1%	0.2	4.3%	7.5
Indirect WBS 000 Total	61.1	61.1	55.7	0.0	0.0%	5.4	8.8%	83.3

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

FYTD Schedule Performance: (+\$0.0M/+0.0%)

The variance is within reporting thresholds.

FYTD Cost Performance: (+\$5.4M/+8.8%)

The FYTD positive cost variance is primarily due to continued lower-than-planned on-demand services for information resource and technology management support. Also contributing to the positive cost variance is open vacancies in the SHS&Q and Environmental Program & Strategic Planning organizations. Additionally, the National Beryllium Program has experienced a decrease in activity as the Beryllium Corrective Action Plan has concluded and the Awareness Group meetings are required less frequently.

FY2017 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY 2017					
	FYTD	FYTD	FYTD	FY2017	FY2017	FY2017
	BCWS	Actual	Variance (O)/U	BCWS	Forecast	Variance (O)/U
General & Administrative (G&A)	61.1	55.7	5.4	83.3	79.2	4.0
Office of the President	1.3	1.4	(0.1)	1.8	1.9	(0.1)
Internal Audit	0.9	0.6	0.3	1.2	0.9	0.3
General Counsel	1.1	0.9	0.2	1.5	1.3	0.3
Communications	0.8	0.9	(0.1)	1.1	1.3	(0.2)
Safety, Health, Security and Quality	11.5	9.6	2.0	15.7	13.8	1.9
Env. Program & Strategic Planning	4.3	3.4	0.9	5.8	4.6	1.2
Business Services	17.7	17.9	(0.2)	24.1	24.8	(0.7)
Prime Contract and Project Integration	18.0	15.8	2.2	24.5	22.9	1.6
Project Technical Services	5.5	5.3	0.2	7.5	7.7	(0.2)
FY2017						
G&A Distribution			(57.0)			(84.0)
G&A Liquidation (Over)/Under			(1.3)			(4.7)

Liquidation Analysis

For June, after an \$8.0 million over liquidation passback, the application of the G&A rate has over liquidated total-to-date G&A cost by \$1.3 million. The FY2017 year-end projected over-liquidation of \$4.7 million, reflected in the fiscal year spend forecast, reflects a projected decrease in G&A costs as well as an increase to the G&A base.

Consistent with CHPRC prospective Cost Accounting Disclosure Statement, under liquidations would be distributed to users at a minimum, when the combined projected year-end under liquidation is equal to or greater than \$4 million. Over liquidations would be distributed to users at a minimum, when the combined projected year-end over liquidation is equal to or greater than \$6 million. Variances may be liquidated to users at lower thresholds if variances are determined to be significant to cost control. All remaining variances will be distributed at fiscal year-end.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix C

Capital Asset Projects



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

Appendix C.1
Capital Asset Project
RL-0011.C1 - PFP D&D
(Removal of 174 Gloveboxes from 234-5Z)



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams continued to prepare glovebox/hoods for extraction during demolition. Final preparations are expected to be completed on July 5, 2017. At that time, gloveboxes will be staged until demolition of 234-5Z commences and completion of the Capital Asset Project (CAP) discrete scope will be completed. The total number of gloveboxes removed to date is 95 percent complete.

The following are key metrics associated with this Capital Asset Project.

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Glovebox/Hood Removed	-	0	174	166
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

RL-0011_C1 Accomplishments

- Work remaining on this capital asset project is removal of the gloveboxes from the 234-5Z Facility. All work associated with the glovebox process equipment removal has been completed. Final preparations to support the physical removal of the remaining gloveboxes will be completed by July 5, 2017. As the project nears the ready-for-demolition milestone for the 234-5Z building, additional gloveboxes will begin to be removed from the facility.
- Continued work was performed on modifications to the 234-5Z facility to support removal of HC-7C and 227T gloveboxes from 234-5Z. The HC-7C and 227T gloveboxes are expected to be removed from the facility by the middle of July.

MAJOR ISSUES

None currently identified.

CORRECTIVE ACTION LOG

Reference Appendix C.1 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.01.01.06 (CAP.1)						
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of June .						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of June .						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
FY2017 Risk Triggers (Risk could be realized in FY2017)						
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the Plutonium Finishing Plant (PFP) demolition, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 30 days			Risk Trigger: During pre-demolition/demolition activities in FY2017.		
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Mitigation Assessment: Mitigation Assessment: No change in the month of June . The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (ISMS) program/hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions are needed.						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
No high threat value risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of June .						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of June .						

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of duct removal/fixative application and filter room clean out. The heating ventilation, and air conditioning (HVAC) activities are performed in parallel to the mechanical isolations throughout 234-5Z to support the transition to demolition. Once ready for demo in 234-5Z, A-Labs is the first section of the building to be demolished. Followed by the demolition of Backside Rooms/Plutonium Process Support Laboratories (PPSL), which then moves to Remote Mechanical A (RMA) Process Line and RMC Process Line in 234-5Z. Finally, the demolition of the Radioactive Acid Digestion Test Unit (RADTU) and basement areas completes the 234-5Z Facility, meeting the requirements for the Tri-Party Agreement Milestone – M-083-00A – *PFP Facility Transition and Selection Disposition Activities*.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.1 Formats 1, 2, 3, and 5 for specific schedule margin/Management Reserve (MR) utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
CAP.1	Removal of 174 gloveboxes from 234-5Z	11/30/17	12/1/2017	Progress continued to work toward CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. Final preparations for the removal are expected to be completed on July 5, 2017. At that time, gloveboxes will be staged until demolition of 234-5Z commences and completion of CAP.1 discrete scope will be completed. There was a 21-day loss for the month of June. The loss is a result of impacts from recovery from a contamination event associated with the demolition of the 236-Z Facility. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and as appropriate, implemented to help recover some of the schedule delays. The total gloveboxes removed to date is at 95 percent complete.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

DOE ACTIONS / DECISIONS

Nothing to report at this time.

Appendix C.1

RL-0011.C1 – PFP D&D

(Removal of 174 Gloveboxes from 234-5Z)

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD			DOLLARS IN Thousands of \$				
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)			a. FROM (YYYYMMDD) 2017 / 05 / 22							
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD) 2017 / 06 / 25							
			c. TYPE CPAF				d. SHARE RATIO			c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18							
5. CONTRACT DATA																	
a. QUANTITY 1		b. NEGOTIATED COST 317,545		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0		d. TARGET PROFIT/FEE 9,878		e. TARGET PRICE 327,423		f. ESTIMATED PRICE 345,013		g. CONTRACT CEILING 327,423		h. ESTIMATED CONTRACT CEILING 345,013		i. DATE OF OTB/OTS (YYYYMMDD)	
6. ESTIMATED COST AT COMPLETION																	
			MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
a. BEST CASE 332,742									a. NAME (Last, First, Middle Initial) Dickerson, Kala K			b. TITLE Prime Contract Compliance Manager					
b. WORST CASE 335,217									c. SIGNATURE						d. DATE SIGNED (YYYYMMDD)		
c. MOST LIKELY 335,135						317,545			-17,590								
8. PERFORMANCE DATA																	
CAPN-PBS Control Account-PARS 2 WBS (2)		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
		BUDGETED COST		ACTUAL COST WORK PERFORMED		VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED		VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)
ITEM (1)		WORK SCHEDULED (2)	WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
RL-0011 Nuclear Mat Stab & Disp PFP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RL_0011_C1.02 Maintain Safe & Compliant PFP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RL_0011_C1.05 Disposition PFP Facility		0	44	109	44	-65	235,514	235,049	259,571	-466	-24,522	0	0	0	235,514	259,955	-24,440
RL_0011_C1.06 Project Management & Support		0	0	0	0	0	11,990	11,990	12,477	0	-487	0	0	0	11,990	12,477	-487
RL_0011_C1.90 Usage Based Services Distributions -PBS RL-11		0	0	0	0	0	7,221	7,221	7,731	0	-510	0	0	0	7,221	7,731	-510
RL_0011_C1.98 Ramp-up and transition		0	0	0	0	0	19,399	19,399	19,253	0	147	0	0	0	19,399	19,253	147
RL_0011_C1.99 PBS RL-11 UBS, G-n-A, Direct Distrib		0	0	0	0	0	41,028	41,028	33,328	0	7,700	0	0	0	41,028	33,328	7,700
b. COST OF MONEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. SUBTOTAL		0	44	109	44	-65	315,152	314,686	332,358	-466	-17,672	0	0	0	315,152	332,742	-17,590
f. MANAGEMENT RESERVE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
g. TOTAL		0	44	109	44	-65	315,152	314,686	332,358	-466	-17,672	0	0	0	317,545	332,742	-15,197
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE													-466	-17,672	317,545	332,742	-15,197

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		ADJUSTMENTS			BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)					
35 - Business Services	0	0	0	0	0	60,427	60,427	52,580	0	7,847	0	0	0	60,427	52,580	7,847		
3B - PFP Closure Project	0	44	109	44	-65	254,725	254,259	279,778	-466	-25,519	0	0	0	254,725	280,162	-25,437		
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET														0	0	0		
e. SUBTOTAL (Performance Measurement Baseline)	0	44	109	44	-65	315,152	314,686	332,358	-466	-17,672	0	0	0	315,152	332,742	-17,590		
f. MANAGEMENT RESERVE														2,393				
g. TOTAL	0	44	109	44	-65	315,152	314,686	332,358	-466	-17,672	0	0	0	317,545				

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)											AT COMPLETION (15)	
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 JULY 2017 (4)	+2 AUG 2017 (5)	+3 SEPT 2017 (6)	+4 OCT 2017 (7)	+5 NOV 2017 (8)	+6 DEC 2017 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)	ATCOMPLET (14)		
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
3B - PFP Closure Project	4	15428	10	1	7	0	0	0	0	0	0	0	0	0	15447
g. TOTAL DIRECT	4	15445	10	1	7	0	0	0	0	0	0	0	0	0	15464

Appendix C.2

Capital Asset Project

RL-0011.C2 - Demolition of PFP Facilities



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams continued to ready the Plutonium Finishing Plant (PFP) facilities for demolition. Demolition on the Plutonium Reclamation Facility (PRF) began on November 8, 2016. Completion of all demolition activities are scheduled to occur in late September 2017.

The following are key metrics associated with this CAP.

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Complete Cold and Dark/Demo Ready activities for 234-5Z	-	-	1	-
COMPLETE Cold and Dark/Demo Ready activities for 236-Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 242-Z	-	-	1	1
Complete Cold and Dark/Demo Ready activities for 291-Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for PFP Ancillary Facilities	-	-	15	3
Complete Demolition of 234-5Z	-	-	1	-
Complete Demolition of 236-Z	-	-	1	-
COMPLETE Demolition of 242-Z	-	-	1	1
Complete Demolition of 291-Z	-	-	1	-
Complete Demolition of PFP Ancillary Facilities	-	-	15	3
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

KEY ACCOMPLISHMENTS

RL-0011_C2 Accomplishments

- Demolition activities on the 236-Z Facility continued wherein three sections of the gallery gloveboxes were removed.

MAJOR ISSUES

Issue:

- On June 8, 2017, a Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of Gallery Glovebox 2nd west (hereafter referred to as GB3) from the PRF. Demolition activities were stopped and Radiological Control Technicians (RCTs) began surveys in preparation to egress personnel. Several spots of contamination were found outside of posted radiological areas following the alarm.

Corrective Action:

- Add caution to the work package direction to not apply a focused beam of water to high materials at risk (MAR) components which have been breached.
- Evaluate the use of the foggers.
- Revise or incorporate additional controls into the work package as appropriate.

- Evaluate the boundaries to incorporate available radiological data.
- Evaluate the fixative concentration.
- Incorporate case by case consideration when handling items of accessible gram values during adverse weather conditions into the work package.
- Evaluate the need for additional contamination engineering controls.
- Evaluate the method for determining acceptable wind speed.
- PFP provide real time data from the event to Dr. Napier for consideration with future models.

Status:

- Corrective Action Report in works.

CORRECTIVE ACTION LOG

Reference Appendix C.2 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- ↑ Increased Confidence
- ↔ No Change
- ↓ Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.05.C3 (CAP.2)												
Explanation of major changes to the project monthly spotlight chart: PFP-DEMO-16 was added as a Realized Risk in the month of June.												
Realized Risks (Risks that are currently impacting project cost/schedule)												
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures, and thunderstorms will impact the demolition of PFP. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$0K, 32 days *Cost increase will result in cost per day impacts from crews and hotel load.	●	↓	Risk Event: This risk was realized during the months of May due to high winds and lightening, limiting demolition activities. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk Recovery Action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Obtain weather conditions for the area and adjust daily work scope/schedule accordingly.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Recovery Assessment: During the month of May, the project was impacted by one day of high winds, which prevented demolition activities to be performed. The risk remains critical due to upcoming high-wind and high-heat weather having the ability to impact the planned demolition. The PFP project will continue to adjust the daily work scope to plan for projected weather impacts.	Risk Recovery Action(s)	FC Date	%	Obtain weather conditions for the area and adjust daily work scope/schedule accordingly.	Ongoing	N/A		
Risk Recovery Action(s)	FC Date	%										
Obtain weather conditions for the area and adjust daily work scope/schedule accordingly.	Ongoing	N/A										
PFP-DEMO-16: Contamination Spread Beyond Established Boundaries	Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events or wildlife result in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 30 days	●	↔	Risk Event: A Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of GB3 the PRF on Thursday, June 8, 2017. Demolition activities were stopped and RCTs began surveys in preparation to egress personnel. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk Recovery action(s)</th> <th style="text-align: center;">Risk Date</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Corrective Actions are being developed and will be included in the monthly report for July reporting.</td> <td style="text-align: center;">6/8/17</td> <td style="text-align: center;">TBD</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> Recovery Action Assessment: The controls identified in the work package are noted to be limited by the inputs, which are provided. Seven areas of weakness were discussed, and several issues and potential areas of weakness of the control set were identified: <ul style="list-style-type: none"> Did not call out specific cautions regarding high pressure streaming or fogging. The boundary was not established far enough out from the demolition area. Did not specify the method to be used for wind limitations. Fixative concentration may have been less than adequate. The weather forecast was not an input to activities when MAR components of high gram quantities would be handled. Additional engineering controls needed (e.g. ventilation, in regard to total gram value available for release). The work package for the remaining activities for the 236-Z demolition work will be revised to incorporate all corrective actions identified in the causal analysis when it has been completed in July.	Risk Recovery action(s)	Risk Date	FC Date	%	Corrective Actions are being developed and will be included in the monthly report for July reporting.	6/8/17	TBD	0
Risk Recovery action(s)	Risk Date	FC Date	%									
Corrective Actions are being developed and will be included in the monthly report for July reporting.	6/8/17	TBD	0									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
FY2017 Risk Triggers (Risk could be realized in FY2017)												

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0011/WBS-011.05.C3 (CAP.2)													
PFP-DEMO-21: Glovebox/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 30 days	●	↑	<p>Risk Trigger: During pre-demolition/demolition activities in fiscal year (FY) 2017.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (ISMS) program/hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions needed.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the crosscutting process support systems (i.e. ventilation) result in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$3 million, 60 days	●	↔	<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the field execution schedule (FES).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td>06/30/17</td> <td>50</td> </tr> <tr> <td>Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.</td> <td>06/30/17</td> <td>50</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of June. An effort will soon be taken to develop a removal path for several of the gloveboxes for Criticality Incredibility. If the opportunity presents itself, additional gloveboxes currently slated for removal during demolition (e.g. HC-227S, HC227T) will be removed during pre-demolition as risk mitigation strategy. At this time, no alternative course of actions are needed.</p>	Mitigation action(s)	FC Date	%	Identify and pre-rig equipment with lifting slings.	06/30/17	50	Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	06/30/17	50
Mitigation action(s)	FC Date	%											
Identify and pre-rig equipment with lifting slings.	06/30/17	50											
Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	06/30/17	50											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
PFP-DEMO-12: PFP/PRF Demolition Contamination Levels	Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes, resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5 million, 22 days	●	↔	<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the FES.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of June. At the end of January 2017, contamination was discovered outside the HCA/ARA/RA Zone established for demolition of the Plutonium Reclamation Facility (PRF) after a Continuous Air Monitor (CAM) alarm sounded just outside the HCA/ARA/RA during relocation of the debris pile. The alarm resulted in the evaluation of employees from the zone and could have resulted in contamination of PFP personnel. As a result of this event, lessons learned have been incorporated in the future demolition work packages to ensure the suppression misting instructions are stated clearly with no subjective verbiage. In addition, in-process monitoring of the pile/bucket has been incorporated during movement of the debris pile.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
Unassigned Risks (Pending ownership of identified risks/opportunities)													
No unassigned risks identified in the month of June.													

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of duct removal/fixative application and filter room clean out. The heating ventilation, and air conditioning (HVAC) activities are performed in parallel to the mechanical isolations throughout 234-5Z to support the transition to demolition. Once ready for demo in 234-5Z, A-Labs is the first section of the building to be demolished. Followed by the demolition of Backside Rooms/Plutonium Process Support Laboratories (PPSL), which then moves to Remote Mechanical A (RMA) Process Line and RMC Process Line in 234-5Z. Finally, the demolition of the Radioactive Acid Digestion Test Unit (RADTU) and basement areas completes the 234-5Z facility, meeting the requirements for the Tri-Party Agreement Milestone – M-083-00A – *PFP Facility Transition and Selection Disposition Activities*.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.2 Formats 1, 2, 3, and, 5 for specific schedule margin/MR utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities.	8/31/18	2/7/18	Progress continued to work toward CD-4 closure as teams continued to ready the PFP facilities for demolition. The PRF facility initiated demolition on November 8, 2016, and completion of demolition activities will occur in September 2017. There was a 20-day loss for the month of June. This is a result of impacts from recovery from a contamination event associated with the demolition of the 236-Z Facility. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and as appropriate, implemented to help recover some of the schedule delays.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

None to report at this time.

Appendix C.2

RL-0011.C2 - Demolition of PFP Facilities

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

FORM APPROVED

DOLLARS IN Thousands of \$ OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE		ADJUSTMENTS			BUDGETED	ESTIMATED	VARIANCE	
	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	(14)	(15)	(16)	
3B - PFP Closure Project	0	829	3,064	829	-2,235	48,712	16,449	26,911	-32,263	-10,462	0	0	0	48,712	42,061	6,651	
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. UNDISTRIBUTED BUDGET														0	0	0	
e. SUBTOTAL (Performance Measurement Baseline)	0	829	3,064	829	-2,235	48,712	16,449	26,911	-32,263	-10,462	0	0	0	48,712	42,061	6,651	
f. MANAGEMENT RESERVE														2,971			
g. TOTAL	0	829	3,064	829	-2,235	48,712	16,449	26,911	-32,263	-10,462	0	0	0	51,683			

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group		ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS				AT COMPLETION
ORGANIZATIONAL CATEGORY (1)	(2)	(3)	+1 JULY 2017 (4)	+2 AUG 2017 (5)	+3 SEPT 2017 (6)	+4 OCT 2017 (7)	+5 NOV 2017 (8)	+6 DEC 2017 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)	ATCOMPLETE (14)	(15)
3B - PFP Closure Project	68	450	91	123	107	56	42	6	9	0	0	0	0	883
g. TOTAL DIRECT	68	450	91	123	107	56	42	6	9	0	0	0	0	883

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis**

**FORM APPROVED
OMB No. 0704-0188**

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract	a. NAME RL_0011_C2 PFP Demolition Capital Asset Project	a. FROM (YYYYMMDD) 2017/05/22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO (YYYYMMDD) 2017/06/25
c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18	

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:		0.0	829.2	3,064.0	829.2	-2,234.8	-269.5%		0.27
Cumulative:		48,711.9	16,449.3	26,911.1	-32,262.5	-10,461.8	-63.6%	0.34	0.61
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:		48,711.9	42,060.9	6,650.9	13.7%	1.48	2.13		

Explanation of Variance/Description of Problem:

Current Month:

Schedule Variance: The schedule variance for the current month is due to working historical BCWS on discrete demolition activities (apportioned). The demolition activities were originally planned to be initiated in the third quarter of 2016, however, delays in getting the facilities ready for demolition negatively impacted the start of physical demolition. There was a 20 loss for the month of June on the 236-Z facility as a result of impacts associated with recovery efforts from a contamination event associated with the demolition of the 236-Z Facility. Demolition of 236-Z is currently scheduled to complete on September 18, 2017. The start of the demolition work for 291-Z and 234-5Z has been significantly impacted due to delays in getting the other PFP facilities ready for demolition. 291-Z demolition activities are schedule to begin early July, 2017 and the implosion of the 291-Z stack is scheduled for July 15, 2017. Finally, demobilization activities, with the exception of on site manholes and underground injection controls cannot be performed until all buildings are demolished. This was partially offset by completion of removal of three sections of gallery gloveboxes from 236-Z.

Cost Variance: The unfavorable cost variance relates to the progress on discrete demolition work scope (apportioned) (see the schedule variance explanation), while a constant staff provides D&D support services. Demo experienced delays from weather (wind and heat), a contamination event, and greater efforts to complete 236-Z demolition than originally planned. This resulted in charges being incurred with minimal performance claimed. In addition, as the project gets further into the demolition phase of the PRF Canyon, increased utilization of Personnel Protective Equipment to align with the original plan as well as increased material procurements to align with the scope being performed (i.e., P-100 filters, Labounty Shear, additional fixative, etc.) are also contributing to this variance.

Cumulative to Date:

Schedule Variance: The cumulative unfavorable schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as ready for demo activities associated with impacts from 236-Z Canyon Crane failure, contamination impacts from an unplanned criticality alarm failure, contamination recovery in the duct level of 234-5Z (two week delay in July 2016), increased characterization efforts, weather delays (snow and wind), recovery from demolition contamination events, and greater efforts to complete 242-Z demolition than originally planned. In addition, the PUREX Tunnel collapse caused a four day delay due to closure of the Hanford site restricting access to PFP and a contamination event associated with removal of PRF gallery gloveboxes causing a 20 day delay of demolition activities on the 236-Z facility. Finally, As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed but not in jeopardy of being met. However, the TPA milestone M-083-00A was re-negotiated to a due date of 9/30/2017 and is expected to be achieved. This is partially offset by the completion of demolition of the 2729-Z, and 2727-Z facilities, removal of gloveboxes, the completion of demolition activities for the 2nd, 3rd, 4th, 5th, and 6th floors, South Canyon Airlock of 236-Z, removal of three sections of gallery gloveboxes from 236-Z, demolition of 242-ZA, and completion of demolition activities in the 242-Z facility.

Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that were planned as P/Q shift support with a baseline start date of February 2016. Because the project is behind schedule in initiating demolition activities, and because the decision was made not to execute demolition activities for the 236-Z/242-Z facilities on P/Q shift, these resources currently have limited work to support which contributes to inability to take performance until the ready for demolition work scope is completed. To ensure that the project is able to continue demolition activities as identified in the current schedule, these costs will continue to be realized resulting in a potential unrecoverable cost variance. Additionally, Readiness Assessment activities lagged due to a delay in the start of 236-Z Demolition and increased requirements to show readiness resulting in increased costs due to additional time and effort required from subcontracted and direct labor resources. In addition, the apportioned project management activities (i.e. project oversight and planning) and support activities are ongoing, while a delay in the discrete field work is resulting in minimal apportioned BCWP. Finally, demolition mobilization activities took longer than originally assumed because of recommendations made during the readiness assessment and purchasing unplanned PBS fixative to support 236-Z demolition. In addition, significant winter weather impacts (i.e., snow, wind, freezing rain, etc.) have been recognized on the Hanford Site. Site closures, freezing temperatures and significant snowfall that required clearing of the demolition zone rather than performing physical demolition on the facilities while a constant staff provides demolition support services is the contributing factor, as a result of the weather impacts and an unexpected contamination events in the PRF demolition zone. In addition unplanned Management Assessment efforts for the 234-5Z and 291-Z facilities took longer than originally assumed. As the project gets further into the demolition phase of the PRF Canyon, increased utilization of Personnel Protective Equipment to align with the original plan as well as increased material procurements to align with the scope being performed (i.e., P-100 filters, Labounty Shear, additional fixative, etc.) are also contributing to this variance. This is partially offset by recognized efficiencies associated with the demolition of the 2727-Z and 2729-Z facilities, and the 242-ZA and 242-Z Facilities.

Impact:

Schedule Impact: Work efforts in getting 234-5Z ready for Cold & Dark resulted in a loss of 21 days for the month of June. This is as a result of impacts associated with recovery efforts from a contamination event associated with the demolition of the 236-Z Facility, high winds, heat, and increased efforts to load out debris from the PRF demolition efforts. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that continued efficiencies will be recognized, evaluated, and implemented as schedule delays occur. The baseline completion date is not considered recoverable. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities of September 30, 2017 and is expected to be achieved.

Cost Impact: Stop Works, Safety Pauses, weather impacts (i.e., unusual winter, heat, wind, etc.) multiple contamination events, the PRF Crane failure, and associated recovery actions have negatively impacted the field work to ready 234-5Z, 236-Z, 242-Z, and 291-Z for demolition. In addition, readiness activities took longer than originally assumed as a result of increased requirements required by the Readiness Assessment team to demonstrate readiness for demolition of the PRF facility and efforts to mobilize took longer than originally assumed as a result of implemented recommendations from the readiness assessment team. An unplanned Management Assessment for the 234-5Z and 291-Z facilities to incorporate lessons learned from the demolition of the 236-Z and 242-Z facilities are also contributing to the cost impacts. Finally, in the early stages of this project subcontracted MSA resources specializing in facility demolition charged the project until the ready for demo status was achieved. In addition an unexpected contamination event that occurred during demolition of the PRF facility in January, 2017, and 242-Z has contributed to the cost impacts on this project.

The positive VAC is reflective of working one shift during demolition of 236-Z and 242-Z facilities rather than two as planned in the PMB. In addition, the duration for demolition of 234-5Z has been adjusted as it has been determined that due to the time of year demolition will occur, the number of days to demolish the facility will be less than originally planned. This reduces the amount of demolition and supervision labor resources needed, resulting in the reduction of EAC to BCWS values.

Corrective Action:

Schedule: The PFP Project will shift to a P/Q, Z shift schedule late July to support demolition activities in the 234-5Z facility to ensure that the TPA milestone of 9/30/17 is met. Action: Chris Pearson 7/31/17.

The PFP Project will utilize overtime when appropriate to attempt schedule recovery. Action: Chris Pearson 7/31/17

The PFP Project initiated a tropical shift beginning early June to account for the summer temperatures allowing demolition activities to continue for an entire shift.

NOTE: Corrective actions associated with stop works/safety pauses, contamination events, and 236-Z Canyon Crane failure, and additional asbestos removal activities that are impacting the ability to initiate demolition activities in the RL-011.C2 capital asset project were previously addressed in the Operations project corrective action plan.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):

The following items are addressed, as applicable, per the EVMSIH:

1. Schedule Margin Analysis: In the EAC there is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in June 2016 as a result of impacts from stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a PremAire Breathing Air radiological event resulting in increased survey requirements for PPE and a requirement for removing additional asbestos in the 234-5Z facility prior to demolition activities commencing.
2. IMS Data dictionary Changes: No change in the month of June
3. Forecast Schedule with No Baseline: No change in the month of June
4. UB Balance: No change in the month of June
5. Negative ACWP: No change in the month of June
6. EAC Analysis: Best Case = \$42,061; Most Likely = \$45,032; Worst Case = \$62,167
7. Negative CV > VAC: No change in the month of June
8. MR Transactions: No change in the month of June
10. Retroactive Changes: No change in the month of June
11. EVT Changes: No change in the month of June

*During the Month of April CHPRC kicked off the FY2018 comprehensive EAC process (ZZCSMILE1117A, Kickoff FY18 Annual Comprehensive EAC), and is expected to finish mid-September (ZZCSMILE1117B, Submit Final FY18 Annual Comprehensive EAC).

Prepared by:

Date:

Approved by:

Date:

Appendix C.3
Capital Asset Project
RL-0012_C1_1 - Sludge Retrieval Project
15-D-401



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

T Plant facility modifications for sludge storage completed on May 24, 2017 (PM-12-4-17).

Initiated K-Basin Pre-operational Acceptance Testing (KPAT) on April 20, 2017. Testing continued throughout June and is forecast to complete October 11, 2017.

The 105KW Basin Final Safety Analysis (FSAR) and Technical Safety Requirements (TSR) revision to support integrated KPAT testing is forecast to be approved by June 30, 2017.

Continued working with RL to address comments arising from Documented Safety Analysis (DSA)/TSR revision submitted on April 12, 2017. RL approval is required by July 21, 2017, to avoid impacts to the project's internal (accelerated) critical path and performance measure PM-12-3-17, *Implement approved integrated KW Basin Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR)*.

Based upon discussions between RL and CHPRC Senior Management, the Sludge Treatment Project (STP) Team has modified the field execution schedule (FES) to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105K and T Plant* for RL approval. RL responded with Change Proposal (CP) Request for Information (RFI) – 1646-1, 2, and 3, dated April 28, 2017, May 12, 2017, and May 17, 2017, respectively. CHPRC prepared and formally transmitted formal responses to RL in June. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce the schedule duration.
- Approval of the integrated 105KW DSA must not affect the project's critical path. This integrated DSA/TSR includes as-built information from installation activities and, therefore, a subsequent "as-built" DSA/TSR submittal is not required.
- Sludge Removal Project (SRP) critical decision (CD)-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of the T Plant safety documentation must be completed within 120 days of submittal.

To demonstrate the current forecast date of Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin Sludge Removal From 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current non-risk adjusted forecast date to begin sludge removal is January 29, 2018.

The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued as resources allow. Work must be completed prior to the start of sludge retrieval (Tri-Party Agreement M-016-175).

Project breakdown structure (PBS) RL-0012 scope is 91.8 percent complete, with a cumulative Schedule Performance Index (SPI) of 1.00 and a Schedule Cost Performance Index (CPI) of 1.05.

KEY ACCOMPLISHMENTS

RL-0012 C1 1 Accomplishments

KW Basin Sludge Removal Capital Asset Project

- KPAT/Construction
 - Initiated KPAT testing on April 20, 2017. Completed a substantial number of component level and system leak tests. As of June month end, the test is approximately 24 percent complete.
 - The KPAT Team successfully replaced four leaking or suspect supplied air mechanical, bulkhead connections adjacent to the Booster Pump Pulsation Dampeners via long handled pole tools. Post replacement leak testing on both Booster Pump Trains confirmed the integrity of all repaired joints on those skids.
 - Completed TDR-069, Retest of Condensate Seal Pot Low Level Switch Intermittent Alarm.
 - Completed Section 4.5; Annex Control System Functionality following rewiring per TDR-074.
 - Installed Annex IXM Simulator Ozone generator per TDR-073 and completed in-service leak test.
 - Completed final loop checks for transfer system instruments.
 - Completed troubleshooting and testing on the Annex Lift Station, back-up generator and made preparations to start testing the Rad monitoring equipment.
 - Completed Annex Preventive Maintenance for the month.
- RL is drafting the Safety Evaluation Report (SER) approving the One Time Request for Shipment (OTRS) document. The SER for this important document is anticipated in mid-July. CHPRC Transportation Safety personnel have also completed a draft OTRS implementation compliance matrix, which will be finalized once the OTRS SER is received.
- The Maintenance and Storage Facility (MASF) Pre-Operational Acceptance Test (MPAT) Report was approved by the STP Joint Test Group on January 31, 2017. However, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in July 2017.
- Engineered Container Retrieval and Transfer System (ECRTS) Procurement: Installation of STSC Instrumentation & Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC assemblies by September 30, 2017 – four of 12 STSC assemblies have been completed as of June month-end. Due to the retirement of the subcontractor performing final Mass Spectrometer Leak Detector (MSLD) Leak Testing Services for HiLine, an alternate strategy had to be implemented to execute the remaining MSLD testing. HiLine hired an individual to facilitate completion of this Nondestructive examination (NDE), however, the HiLine Quality Assurance Program had to be updated to add MSLD NDE, and associated submittals must be approved by CHPRC personnel prior to initiating remaining MSLD testing. An approximately three to four week slip was incurred for achieving the PM.
- American Boiler Works (ABW) will also complete fabrication of the final 11 STSC shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations continues in parallel with approval of safety documentation. As of June month end, 31 of 79 procedures are drafted.

MAJOR ISSUES

Sludge Removal Project

Issue:

The schedule for receipt and implementation of the integrated DSA/TSR for the 105KW Basin/Annex will no longer support the KPAT integrated test without impacting the SRP critical path.

Corrective Action:

CHPRC updated the DSA/TSR to incorporate RL comments and retransmitted the document sent to RL for approval. Approval of these documents precedes preparation of SRP training material, procedures, formal safety basis implementation, and completion of readiness preparation activities prior to the Operational Readiness Review (ORR) authorizing full-up ECRTS Operation. Simultaneously, a revision to the existing FSAR has been prepared, approved, and submitted to RL for review/approval. This FSAR revision should enable execution of integrated KPAT without impacting SRP critical path.

Status:

CHPRC personnel updated the Integrated DSA/TSR to incorporate comments provided by the RL Safety Basis Review Team (SBRT) and retransmitted the updated files to RL on April 12, 2017, via CHPRC-1700081A R3 - *Transmittal of PRC-STP-00946, Revision 0, 105KW Facility Documented Safety Analysis, PRC-STP-00992, Revision 0, 105KW Facility Technical Safety Requirements, and HNF SD SNF-FHA-001, Revision 5, Fire Hazards Analysis for the 105KW Facility*. The current schedule forecast for RL approval is July 21, 2017.

In order to prevent a schedule delay on the initiation of the integrated KPAT, CHPRC submitted a revision to the FSAR/TSR for the 105KW Basin that addresses the control necessary to facilitate completion of that integrated test. The FSAR revision is forecast to be approved by RL by June 29, 2017.

CORRECTIVE ACTION LOG

Reference Appendix C.3 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																								
		Month	Trend																									
RL-0012/WBS-012 (CAP)																												
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of June.																												
Realized Risks (Risks that are currently impacting project cost/schedule)																												
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the STP resulting in cost impacts and schedule delays. Additionally, discovery of additional components requiring fabrication results in deliveries that challenge project baseline schedules. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$3 million, 120 days	●		<p>Risk Event: Event 1: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project's needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of baseline material procurement plans.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Event 1 - Finalize Field FES activities dates consistent with change orders.</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete Procurement/Fabrication.</td> <td>12/7/16</td> <td>Complete</td> <td>90</td> </tr> <tr> <td>Deliver equipment to 100K Area.</td> <td>12/7/16</td> <td>Complete</td> <td>90</td> </tr> <tr> <td>Replace STS Cask Seals.</td> <td>12/7/16</td> <td>07/31/17</td> <td>0</td> </tr> <tr> <td>Conduct post repair leak test.</td> <td>12/7/17</td> <td>08/29/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: No major changes in the month of June. Event 1: Additional leak test tooling has been placed on order and is scheduled to arrive in July. Proof test on new seal will likely be delayed until fabrication of Cask Leak Test Tool and qualification by Nondestructive examination (NDE) Contractor.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Event 1 - Finalize Field FES activities dates consistent with change orders.	12/7/16	Complete	100	Complete Procurement/Fabrication.	12/7/16	Complete	90	Deliver equipment to 100K Area.	12/7/16	Complete	90	Replace STS Cask Seals.	12/7/16	07/31/17	0	Conduct post repair leak test.	12/7/17	08/29/17	0
Risk recovery action(s)	Risk Date	FC Date	%																									
Event 1 - Finalize Field FES activities dates consistent with change orders.	12/7/16	Complete	100																									
Complete Procurement/Fabrication.	12/7/16	Complete	90																									
Deliver equipment to 100K Area.	12/7/16	Complete	90																									
Replace STS Cask Seals.	12/7/16	07/31/17	0																									
Conduct post repair leak test.	12/7/17	08/29/17	0																									
STP-067A Safety Classification of SSCs - DSA/TSR	RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a more conservative safety classification, requiring CHPRC to revise key safety documentation (DSA and TSR), procedures and/or design(s). Upon submittal of revised Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR), procedures and/or design(s), RL approval takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$300K, 120 days	●		<p>Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016, in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. CHPRC resubmitted the DSA/TSR via CHPRC-1700081A R3 on April 12, 2017. The original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 249 days (as of June 25, 2017) since the original submittal with formal approval still not imminent.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Solicit Senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>As Required</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: RL and CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR submittal. All DSA/TSR comments from the initial submittal were dispositioned as of February 17, 2017, CHPRC resubmitted an updated version of the DSA/TSR incorporating RL comments on April 12, 2017. Obtaining RL concurrence on comment resolution is in progress and is now forecasted to complete on July 13, 2017. The current forecast for receiving a SER approving the DSA/TSR is July 21, 2017. Once CHPRC has received the SER and confirmed no changes to assume safety classification is needed, this risk may be closed.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	As Required	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100				
Risk recovery action(s)	Risk Date	FC Date	%																									
Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A																									
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CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100																									
Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100																									

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0012/WBS-012 (CAP)																			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
No critical risks identified in the month of June .																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2017 Risk Triggers (Risk could be realized in FY2017)																			
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup	The ECRTS equipment does not operate as expected, requiring increased engineering, startup, operations, and construction. Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications because of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.5 million, 90 days			Risk Trigger: 1) The ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.															
		<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Utilize overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table>			Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	Complete	100	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100	Utilize overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
Mitigation action(s)	FC Date	%																	
Develop and refine procedures based upon feedback from testing and operations personnel.	Complete	100																	
Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100																	
Utilize overtime to offset schedule impacts.	As Needed	N/A																	
Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A																	
Mitigation Assessment: No major changes in the month of June . KPAT Testing is in progress. No significant equipment failures as of 5/21/17.																			
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in the month of June .																			

CRITICAL PATH SCHEDULE

The critical path is now driven by both the approval/implementation of the 105K West Basin DSA/TSR and KPAT. KPAT will confirm that the Sludge Removal Project (SRP) hardware is installed properly and functions consistently with the design. Following a successful Contractor & DOE Operational Readiness Review, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE-HQ review/approval of CD-4. Completing retrieval operations, including the filling of STSCs with sludge and transferring them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is outside the current contract period in FY2019. However, the STP team has modified the FES to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in FY2018.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.3 Formats 1, 2, 3, and 5 for specific schedule margin/MR utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	*Due Date	**Forecast Date	Status/ Comment
15-D-401	CD-4, Project Completion	11/30/2019	8/02/2018	The forecast date includes schedule margin from the project's risk analysis. Project schedule margin is 123 days. The current forecast date before schedule margin and allowance for CD-4 is January 29, 2018.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPA)	5/22/17(A)	7/31/17
RL Issue SER for KW Facility DSA/TSR	4/11/17(A)	8/04/17
RL Concur on KW Facility DSA/TSR Comment Resolution	4/11/17(A)	7/13/17
RL Prepare KW Facility DSA/TSR SER	4/11/17(A)	7/25/17
RL Review KPAT FSAR / TSR Change	5/31/17(A)	6/23/17(A)
RL SRB Review of KW Facility DSA/TSR	4/11/17(A)	7/28/17
RL Approve / Comment Plan of Action (POA) - K-Basins	5/25/17(A)	6/28/17(A)
RL Final Approval of POA - K-Basins	7/11/17	7/17/17
RL Approve OTRS	6/01/17(A)	7/31/17

Appendix C.3

RL-0012_C1_1 – Sludge Retrieval Project 15-D-401

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN Thousands of \$ FORM APPROVED OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 295,873	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 7,950	e. TARGET PRICE 303,823	f. ESTIMATED PRICE 294,407	g. CONTRACT CEILING 303,823	h. ESTIMATED CONTRACT CEILING 294,407	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K		b. TITLE Prime Contract Compliance Manager	
a. BEST CASE 280,933						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 288,257									
c. MOST LIKELY 286,457		295,873		9,416					

8. PERFORMANCE DATA																
CAPN.PBS Control Account.PARS 2 WBS (2)		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION			
ITEM (1)	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
RL-0012 SNF Stabilization & Disp																
RL_0012_C1_1.16 Sludge Treatment Project	0	0	0	0	0	156,861	156,861	156,786	0	75	0	0	0	156,861	156,786	75
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project	3,905	2,781	803	-1,123	1,978	115,350	114,182	104,333	-1,168	9,849	0	0	0	133,318	124,147	9,171
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	0	0
e. SUBTOTAL	3,905	2,781	803	-1,123	1,978	272,211	271,043	261,119	-1,168	9,924	0	0	0	290,179	280,933	9,246
f. MANAGEMENT RESERVE														5,524		
g. TOTAL	3,905	2,781	803	-1,123	1,978	272,211	271,043	261,119	-1,168	9,924	0	0	0	295,703		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										-1,168	9,924			295,703	280,933	14,770

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
3G - K Basin Oper & Plateau Remediation Project	3,905	2,781	803	-1,123	1,978	272,211	271,043	261,119	-1,168	9,924	0	0	0	290,179	280,933	9,246		
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET																		
e. SUBTOTAL (Performance Measurement Baseline)	3,905	2,781	803	-1,123	1,978	272,211	271,043	261,119	-1,168	9,924	0	0	0	290,179	280,933	9,246		
f. MANAGEMENT RESERVE														5,524				
g. TOTAL	3,905	2,781	803	-1,123	1,978	272,211	271,043	261,119	-1,168	9,924	0	0	0	295,703				

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING														FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR		2. CONTRACT					3. PROGRAM				4. REPORT PERIOD				
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract					a. NAME 15_D_401 KW Basin Sludge Removal Project				a. FROM (YYYYMMDD) 2017 / 05 / 22				
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788					b. PHASE				b. TO (YYYYMMDD) 2017 / 06 / 25				
		c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18								
5. PERFORMANCE DATA															
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)												AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 JULY 2017 (4)	+2 AUG 2017 (5)	+3 SEPT 2017 (6)	+4 OCT 2017 (7)	+5 NOV 2017 (8)	+6 DEC 2017 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)	TCOMPLET (14)		
3G - K Basin Oper & Plateau Remediation Project	71	6914	72	84	92	73	62	69	79	0	0	0	0	7448	
g. TOTAL DIRECT	71	6914	72	84	92	73	62	69	79	0	0	0	0	7448	

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM		4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract	a. NAME 012- RL-12 SNF Stabilization and Disposition		a. FROM (YYYYMMDD) 2017/05/22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE		b. TO (YYYYMMDD) 2017/06/25
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD)	2009 / 09 / 18

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	3,904.6	2,781.4	803.5	-1,123.2	-28.8%	1,977.9	71.1%	0.71	3.46
Cumulative:	272,211.2	271,043.3	261,119.4	-1,167.9	-0.4%	9,924.0	3.7%	1.00	1.04
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	290,178.7	280,932.8	9,245.9	3.2%	0.66	0.97			

Explanation of Variance/Description of Problem:

Current Period:
Schedule Variance: The current month negative schedule variance is due to work completed earlier in the FY which was planned for the current period. This included in-basin equipment installation and Annex equipment installation activities. Due to the retirement of the subcontractor performing mass spectrometer leak detector (MSLD) testing services for Procurement Set #9 (installing instrumentation and appurtenances to STSCs), an alternate strategy was implemented to execute the remaining MSLD testing. The subcontractor has hired an individual to facilitate completion of this nondestructive examination (NDE), however, the NDE Program and associated submittals must be approved by CHPRC personnel prior to initiating remaining MSLD testing. In addition, during execution of K-Basin Pre-operational Acceptance Testing (KPAT) an air leak was discovered in the booster pump requiring repair and retesting.

Cost Variance: The current month positive cost variance is due to realizing earned value on level of effort accounts for work scope completed ahead of schedule. This included in-basin equipment installation and Annex equipment installation activities. In addition, a review of fabrication contractor's accrual information showed information provided by the contractor was not consistent with progress on the firm, fixed, priced contract. This resulted in a downward adjustment to the accrued costs to date.

Cumulative To Date:

Impact:

Schedule Impact: None identified at this time - project is within threshold. However, as a result of delays in approval of the Documented Safety Analysis/Technical Safety Requirements (DSA/TSR), the project has assumed additional risk to readiness activities, including training and procedure development which are dependent on the final, approved safety documents.

The project continues to pursue initiation of sludge retrieval operations by January, 2018. The project completed TPA milestones M-016-177 "Complete 105-KW Sludge Transfer Equipment Installation" on 4/19/17 and is on schedule to complete M-016-175 "Begin Sludge Removal from 105-KW Fuel Storage Basin" by 9/30/2018.

KPAT was initiated in April, 2017 and is expected to complete in October, 2017

Cost Impact: Within Threshold

The current ETC reflects the expected overall costs and further ETC adjustments will be considered as needed. KPAT testing commenced on April 20, 2017 and is scheduled to complete in mid-October, 2017. Currently, the EAC provided at the end of June is \$280.9M overall for the project, against a life-cycle budget of \$290.2M (excluding management reserve and contingency). Note, at June month end closing, the Project was finalizing ETCs for the FY 2018 PMB Update submittal. As a result, ETC's for the SRP were not finalized until the following week and the amount above is lower than the final ETC submittal. Revised amounts are as follows:
 Best Case = \$282.5M; Most likely = \$288.0M; Worst Case = \$289.8M

Corrective Action:

Schedule: N/A

Cost: The project has closed all CACNs for 12.16. and all final contract costs and adjustments are reflected in the accounts.. (Action closed.)

The new 105KW Facility DSA and TSR must be approved by the end of June to allow sufficient time to support training, procedure development, formal safety basis implementation, and completion of readiness preparations prior to the Operational Readiness Review (ORR) that will authorize full-up ECRTS Operation. The Project is working closely with DOE-RL to address concerns and issues to allow issuance of the Safety Evaluation Report (SER) by 6/30/17.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):

- Schedule Margin Analysis: There were no baseline changes in the month of June which affected the schedule margin. Project schedule margin is 123 days. As a result of schedule acceleration efforts to enable the retrieval of all sludge by 9/30/18, the Project has assumed project risk and schedule margin is assumed to be zero. Project continues to evaluate schedule for efficiencies.
- IMS Data dictionary Changes: None in the month of June.
- Forecast Schedule with No Baseline: None in the month of June.
- UB Balance: None in the month of June.
- Negative ACWP: Four control accounts experienced negative ACWP in May. One instance was the result of an accrual adjustment as discussed in the Cost Variance section (Control Account 017.01.01.01). One instance was the result of a cost transfer from WBS 012.17.02.04, Project Management (OPC) (PM account was incorrectly setup as OPC) to Project Management (LI) (012.17.01.40). The other two instances were the result of cost transfers from K-Basin Installation and Annex Installation for contractor support to KPAT (Control Accounts 012.17.01.06 and 012.17.01.16).
- EAC Analysis: Best Case = \$280.9M; Most likely = \$286.5M; Worst Case = \$288.3M.
- Negative CV > VAC: None in the month of June.
- MR Transactions: BCR-012C-17-011R0, SRP Equipment Installation MR Draw utilized \$171.2K of Management Reserve (MR) to add future mitigation actions in support of currently authorized work scope associated with identified risk STP-108.
- Freeze Period Changes: None in the month of June.
- Retroactive Changes: None in the month of June.
- EVT Changes: None in the month of June.

Prepared by: _____ Date: 07/17/17 Approved by: _____ Date: _____

Appendix C.4
Capital Asset Project
RL-0041_C1 – Project 618-10, 316-4 and
600-63 Waste Sites



T. L. Hobbes
Vice President for
618-10 Burial Ground

June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Workers at the 618-10 Burial Ground Complex made significant achievements in the month of June. Excavation at the 316-4 Waste Site completed and backfill began. Mass Excavation efforts at the 618-10 Burial Ground continued with minimal delays. The project continued to consolidate excess materials and supplies for disposition and disposal.

KEY ACCOMPLISHMENTS

618-10 Burial Ground Mass Excavation (56 percent complete)

- 29,571 tons of contaminated soil sent to the Environmental Restoration Disposal Facility (ERDF); 96,279 total tons sent to ERDF to date.

316-4 Waste Site Excavation (100 percent complete)

- Completed excavation of contaminated soil on May 23, 2017. Crews removed 302,859 tons from the waste site, including 20,163 tons of contaminated soil.
- Received backfill concurrence from RL/EPA and began backfill activities on June 19, 2017.

600-63 Waste Site

- No significant accomplishments in the current reporting period.

618-10 Burial Ground Complex Demobilization

- Shipped 60 empty drums off the 618-10 Burial Ground Complex for re-use around the Hanford Site
- An excavator and a forklift, along with miscellaneous supplies, were sent to PFP for re-use
- Six conex boxes were shipped off site for re-use at other Hanford sites

MAJOR ISSUES

No major issues to report on at this time.

CORRECTIVE ACTION LOG

Reference Appendix C.4 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Unmitigated Risk Impacts	Assessment		Comments											
	Month	Trend												
RL-0041/WBS-041														
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of June.														
Realized Risks (Risks that are currently impacting project cost/schedule)														
RCC-316-4-09: 316-4 Discovery of Unexpected Waste/ Contamination	Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs and/or waste profile, and/or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$240K, 48 day	 	Risk Event: On Tuesday, November 29, 2016, CHPRC discovered debris (wood, metal, etc.) in the 316-4 overburden removal, and then on Wednesday, November 30, 2016, radiological contaminated soil and contaminated debris (plastic and piping) was encountered that was buried in the top six feet of overburden at the 316-4 waste site. On Wednesday, January 4, 2017, and Tuesday, January 24, 2017, additional contamination was discovered. Contamination was discovered approximately four feet above the anticipated location on March 27, 2017. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Send backfill stockpile to ERDF.</td> <td rowspan="2" style="text-align: center;">11/29/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Update TCoPD to align with found conditions.</td> <td style="text-align: center;">5/26/17</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> Recovery Action Assessment: The TCoPD for change proposal CP-041-304-1600 was submitted on May 26, 2017. The TCoPD captured schedule and cost changes that resulted from the contamination discoveries that occurred prior to March 2017. The excavation of the 316-4 Waste Site was completed on May 23, 2017, and backfill began on June 19, 2017. Due to the completion of the excavation, this risk is no longer a realized risk. However, with backfill work being conducted, there is still a probability that this risk will be realized again. As such, this risk will be removed as a realized risk and begin to be tracked under the High Risk Threat Value section Spotlight Report in July.	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF.	11/29/16	Complete	100	Update TCoPD to align with found conditions.	5/26/17	100
Risk recovery action(s)	Risk Date	FC Date	%											
Send backfill stockpile to ERDF.	11/29/16	Complete	100											
Update TCoPD to align with found conditions.		5/26/17	100											
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) No critical risks identified in the month of June.														
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)														
Lifecycle Risk Triggers (Risk could be realized at any point of the project)														
RCC-618-10-07: Contamination Event at 618-10 Waste Site	During fieldwork activities, a contamination event occurs that requires corrective actions, resulting in schedule and cost impacts. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$1,288K, 64 days	 	Risk Trigger Metric: The risk could be triggered by high winds or operational upsets (i.e. spills or airborne release). <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Enhanced radiological controls implemented on project.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: No changes in the month of June. Much of the 618-10 work is performed in hazardous and radioactive environments. By its nature, the work can be dangerous. Although CHPRC procedures, safety programs, and training programs are designed to minimize the potential loss of control of hazardous/radioactive substances, such an occurrence could be deemed to be significant enough to warrant corrective actions outside of the baseline (i.e. a prolonged work shutdown).	Mitigation action(s)	FC Date	%	Enhanced radiological controls implemented on project.	Ongoing	N/A					
Mitigation action(s)	FC Date	%												
Enhanced radiological controls implemented on project.	Ongoing	N/A												

Unmitigated Risk Impacts	Assessment		Comments			
	Month	Trend				
RL-0041/WBS-041						
RCC-618-10-09: Discovery of Unexpected Waste/Contamination Discovery of waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs or waste profile, or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$1,280K, 64 days	 		Risk Trigger Metric: This risk has previously been realized as more drums than planned were discovered. This risk has the potential to occur again during mass excavation if additional waste/contamination is discovered.			
			<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Closely managing waste inventories and discoveries, and making adjustments as required.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%
Mitigation action(s)	FC Date	%				
Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A				
Unassigned Risks (Pending ownership of identified threats/opportunities)						
No unassigned risks identified in the month of June .						

CRITICAL PATH SCHEDULE

The critical path flows through 618-10 Burial Ground closeout sampling and analysis to support preparing calculations for backfill concurrence. Following receipt of backfill concurrence from RL/EPA, the project will begin backfill fieldwork activities. After successful completion of backfill, the project will finish infrastructure demobilization.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.4 Formats 1, 2, 3, and 5 for specific schedule margin/MR utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	Due Date	Forecast Date	Status/ Comment
KPG #1	Complete 618-10 Trench remediation and retrieval of remaining 94 vertical pipe units	9/30/2017	9/18/2017	Completion Criteria: Complete all trench remediation and waste disposition; retrieve and dispose of all VPU waste and remove overcasings.
KPG #2	Complete 316-4 Waste Site and lysimeter facility remediation	9/30/2017	9/18/2017	Completion Criteria: Complete remediation and remove all waste from 316-4 Waste Site and 600-63 Lysimeter Waste Site.
KPP #1	Complete the 618-10 Burial Ground Remediation	1/31/2020	6/18/2018	Completion Criteria: Complete remediation, closeout sampling, and backfill of the 618-10 Burial Ground.
KPP #2	Complete the Remediation of the 316-4 and 600-63 Waste Sites	1/31/2020	2/15/2018	Completion Criteria: Complete remediation, closeout sampling, and backfill of the 316-4 Waste Site and 600-63 Lysimeter Waste Site.
	CD-4 Closeout	1/31/2020	TBD	CD-4 closeout pending contract definitization.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL and Regulator Review of Closeout Sampling Instructions for 316-4 Waste Site	5/18/17 (A)	5/24/17 (A)
RL/EPA Review & Approve Backfill Concurrence for 316-4 Waste Site	6/14/17 (A)	6/19/17 (A)
RL and Regulator Review of Closeout Sampling Instructions for 618-10 Burial Ground	6/19/17 (A)	8/2/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 316-4 Waste Site	10/17/17	11/30/17
RL/EPA Review & Approve Backfill Concurrence for 600-63 Waste Site	12/8/17	12/21/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 600-63 Waste Site	12/8/17	1/21/18
RL/EPA Review & Approve Backfill Concurrence for 618-10 Burial Ground	1/12/18	1/19/18
RL and Regulator Review of CVP and Waste Site Reclassification Form for 618-10 Burial Ground	3/6/18	4/19/18

Appendix C.4

RL-0041_C1 – Project 618-10, 316-4 and 600-63 Waste Sites

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



June 2017
CHPRC-2017-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN

Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT				3. PROGRAM				4. REPORT PERIOD									
a. NAME CH2M HILL Plateau Remediation Company		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr				a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr				a. FROM (YYYYMMDD) 2017 / 05 / 22									
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18				b. TO (YYYYMMDD) 2017 / 06 / 25									
c. TYPE CPAF		d. SHARE RATIO																	
5. CONTRACT DATA																			
a. QUANTITY 1	b. NEGOTIATED COST 0	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 70,486	d. TARGET PROFIT/FEE 0	e. TARGET PRICE 0	f. ESTIMATED PRICE 60,419	g. CONTRACT CEILING 70,486	h. ESTIMATED CONTRACT CEILING 60,419	i. DATE OF OTB/OTS (YYYYMMDD)											
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE													
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K			b. TITLE Prime Contract Compliance Manager										
a. BEST CASE 60,419						c. SIGNATURE			d. DATE SIGNED (YYYYMMDD)										
b. WORST CASE 60,621																			
c. MOST LIKELY 60,419		70,486		10,066															
8. PERFORMANCE DATA																			
CAPN.PBS Control Account.PARS 2 WBS (3)		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION						
ITEM (1)		BUDGETED COST		ACTUAL COST WORK PERFORMED		BUDGETED COST		ACTUAL COST WORK PERFORMED		COST VARIANCE (12a)		SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)			
		WORK SCHEDULED (2)	WORK PERFORMED (3)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	SCHEDULE (10)	COST (11)										
RL-0041 Nuc Fac D&D - RC Closure Proj																			
RL_0041_C1.05.02 618-10 Burial Ground		4,122	3,440	1,885	-681	1,556	36,497	35,718	26,674	-780	9,044	0	0	0	57,427	51,147	6,280		
RL_0041_C1.05.03 316-4 Waste Site		466	704	414	238	290	5,888	6,220	3,415	332	2,805	0	0	0	11,434	8,238	3,197		
RL_0041_C1.05.04 600-63 Waste Site		0	0	5	0	-5	0	118	88	118	30	0	0	0	1,624	1,034	590		
b. COST OF MONEY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET																			
e. SUBTOTAL		4,588	4,145	2,303	-444	1,841	42,385	42,055	30,176	-330	11,879	0	0	0	70,486	60,419	10,066		
f. MANAGEMENT RESERVE																			
g. TOTAL		4,588	4,145	2,303	-444	1,841	42,385	42,055	30,176	-330	11,879	0	0	0	70,486	60,419	10,066		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																			
a. VARIANCE ADJUSTMENT																			
b. TOTAL CONTRACT VARIANCE														-330	11,879		70,486	60,419	10,066

CLASSIFICATION (When Filled in)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

WBS FOC Control Account.PARS 2 WBS (3) ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
041.6 - 618 10 Projects																
RL_0041_C1.05.02 618-10 Burial Ground	4,122	3,440	1,885	-681	1,556	36,497	35,718	26,674	-780	9,044	0	0	0	57,427	51,147	6,280
RL_0041_C1.05.03 316-4 Waste Site	466	704	414	238	290	5,888	6,220	3,415	332	2,805	0	0	0	11,434	8,238	3,197
RL_0041_C1.05.04 600-63 Waste Site	0	0	5	0	-5	0	118	88	118	30	0	0	0	1,624	1,034	590
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	0	0
e. SUBTOTAL (Performance Measurement Baseline)	4,588	4,145	2,303	-444	1,841	42,385	42,055	30,176	-330	11,879	0	0	0	70,486	60,419	10,066
f. MANAGEMENT RESERVE														0		
g. TOTAL	4,588	4,145	2,303	-444	1,841	42,385	42,055	30,176	-330	11,879	0	0	0	70,486		

CONTRACT PERFORMANCE REPORT													Form Approved OMB No. 0704-0188			
FORMAT 3 - BASELINE										DOLLARS IN THOUSANDS						
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA			2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE: EVMS ACCEPTANCE c. EVMS ACCEPTANCE: YES X d. SHARE RATIO: NO			PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr			4. REPORT PERIOD a. FROM: 2017/05/22 b. TO: 2017/06/25			
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 0			b. NEGOTIATED CONTRACT CHANGE \$0		c. CURRENT NEGOTIATED COST (A + B) \$0		d. ESTIMATED COST AUTH UNPRICED WORK 70,486		e. CONTRACT BUDGET BASE (C + D) \$70,486		f. TOTAL ALLOCATED BUDGET \$70,486			g. DIFFERENCE (E - F) \$0		
h. CONTRACT START DATE 6/19/2008			i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018			l. EST COMPLETION DATE 9/30/2018						
6. PERFORMANCE DATA																
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)						UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
			+1 Jul-17 (4)	+2 Aug-17 (5)	+3 Sep-17 (6)	+4 Oct-17 (7)	+5 Nov-17 (8)	+6 Dec-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE (BEGIN OF PERIOD)	37,797	4,798	3,368	2,881	4,597	2,037	2,665	2,457	0	0	0	3,497	49,156	17,833	0	70,486
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
RL_0041_C1.05.02 618-10 Burial Ground																
None at this time.													0	0	0	0
RL_0041_C1.05.03 316-4 Waste Site																
None at this time.													0	0	0	0
RL_0041_C1.05.04 600-63 Waste Site																
None at this time.													0	0	0	0
c. PM BASELINE (END OF PERIOD)	42,385	4,588	3,205	2,881	4,182	1,457	1,742	1,741	0	0	0	3,497	49,156	17,833	0	70,486

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr		a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA															
WBS.FOC Control Account.PARS 2 WBS (3) ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)												AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 JULY 2017 (4)	+2 AUG 2017 (5)	+3 SEPT 2017 (6)	+4 OCT 2017 (7)	+5 NOV 2017 (8)	+6 DEC 2017 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)	ATCOMPLETE (14)		
041.6 - 618 10 Projects															
RL_0041_C1.05.02 618-10 Burial Ground	67	825	58	59	58	30	31	37	121	124	85	0	0	0	1428
RL_0041_C1.05.03 316-4 Waste Site	6	60	14	13	13	11	11	6	2	0	0	0	0	0	131
RL_0041_C1.05.04 600-63 Waste Site	0	3	5	6	5	2	2	2	5	0	0	0	0	0	30
g. TOTAL DIRECT	73	889	76	78	76	43	44	45	128	124	85	0	0	0	1588

CONTRACT PERFORMANCE REPORT FORMAT 5 - Explanations and Problem Analysis										FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR		2. CONTRACT			3. PROGRAM					4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME 041 - RL-41 Nuclear Facility D&D - River Corridor					a. FROM (YYYYMMDD) 2017 / 05 / 22	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE					b. TO (YYYYMMDD) 2017 / 06 / 25	
c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE No X Yes (YYYYMMDI 2009 / 09 / 18)						
5. Evaluation											
Direct Projects											
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI		
Current:	4,588.3	4,144.6	2,303.1	-443.8	-9.7%	1,841.5	44.4%	0.90	1.80		
Cumulative:	42,385.0	42,055.2	30,176.4	-329.8	-0.8%	11,878.8	28.2%	0.99	1.39		
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC					
At Complete:	70,485.7	60,419.3	10,066.4	14.3%	0.71	0.94					
Explanation of Variance/Description of Problem:											
CURRENT MONTH The current month schedule variance is within reporting thresholds. The current month favorable cost variance is partially due to the 618-10 Burial Ground project management and support accounts that experienced significant underruns due to efficient use of resource sharing across the complex and reduced material usage. Additionally, excavation efficiencies at the 316-4 Waste Site reduced the total volume of soil to be removed, which resulted in significant progress with minimal costs.											
CONTRACT TO DATE The cumulative schedule variance is within threshold. The cumulative favorable cost variance is partially due to the sharing of resources and materials among the projects, which has resulted in fewer purchased materials and lower labor costs. Attrition has led to a reduction in staffing and in cost with work still being completed on time with the resources left. Additionally, excavation efficiencies at the 316-4 Waste Site reduced the total volume of soil to be removed, which resulted in significant progress with minimal cost.											
VARIANCE AT COMPLETION The favorable variance at completion reflects the efficient practice of sharing resources and materials amongst the 618-10 Complex projects. Additionally, the processing costs of the drums from the 618-10 Burial Ground are anticipated to be less than what had been planned. Attrition has also led to a reduction in staffing and in cost with work still being completed on time with the resources left, and excavation efficiencies at the 316-4 Waste Site reduced the total cost to complete excavation.											
IMPACTS There are no current impacts to the project schedule or cost.											
Corrective Action:											
Corrective Action: There are no corrective actions required at this time.											
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):											
1. Schedule Margin Analysis: N/A, pending definitization of the scope. 2. IMS Data dictionary Changes: None in the month of June. 3. Forecast Schedule with No Baseline: None in the month of June. 4. UB Balance: N/A 5. Negative ACWP: N/A 6. EAC Analysis: Best Case: \$60,419; Most Likely: \$60,419; Worst Case: \$60,621 7. Negative CV > VAC: N/A 8. MR Transactions: None in the month of June. 9. Freeze Period Changes: None in the month of June. 10. Retroactive Changes: None in the month of June. 11. EVT Changes: None in the month of June. *During the Month of April CHPRC kicked off the FY2018 comprehensive EAC process (ZZCSMILE1117A, Kickoff FY18 Annual Comprehensive EAC), and is expected to finish mid-September (ZZCSMILE1117B, Submit Final FY18 Annual Comprehensive EAC).											